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SEQUENCE LISTING

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<110> Alitalo, et al.

<120> MATERIALS AND METHODS FOR COLORECTAL CANCER SCREENING, DIAGNOSIS AND THERAPY

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<150> US 60/494,221

<151> 2004-08-08

<160> 50

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aagcaaagct catgtttttt tatacccgtt atcccagctc caatatgctg aagacctact	2100
tctccgacgt aaagttcaac agatgcatta cctctcagct catcaagtgg tttagcaatt	2160
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tcaccagtac tgaagagctg tctataacca gagactgtga gctgtacagg gctctgaaca	2280
tgcactacaa taaagcaaat gactttgagg ttccagagag attcctggaa gttgctcaga	2340
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39467A.txt.txt
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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Prox-1 Protein

<400> 3

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Phe Phe Ala Lys Ala Arg Ala Thr Phe Phe Ser Ala Met Asn Pro Gln
 35 40 45

Gly Ser Glu Gln Asp Val Glu Tyr Ser Val Val Gln His Ala Asp Gly
 50 55 60

Glu Lys Ser Asn Val Leu Arg Lys Leu Leu Lys Arg Ala Asn Ser Tyr
 65 70 75 80

Glu Asp Ala Met Met Pro Phe Pro Gly Ala Thr Ile Ile Ser Gln Leu
 85 90 95

Leu Lys Asn Asn Met Asn Lys Asn Gly Gly Thr Glu Pro Ser Phe Gln
 100 105 110

Ala Ser Gly Leu Ser Ser Thr Gly Ser Glu Val His Gln Glu Asp Ile
 115 120 125

Cys Ser Asn Ser Ser Arg Asp Ser Pro Pro Glu Cys Leu Ser Pro Phe
 130 135 140

Gly Arg Pro Thr Met Ser Gln Phe Asp Met Asp Arg Leu Cys Asp Glu

39467A.txt.txt
155

145 150 160
 His Leu Arg Ala Lys Arg Ala Arg Val Glu Asn Ile Ile Arg Gly Met
 165 170 175
 Ser His Ser Pro Ser Val Ala Leu Arg Gly Asn Glu Asn Glu Arg Glu
 180 185 190
 Met Ala Pro Gln Ser Val Ser Pro Arg Glu Ser Tyr Arg Glu Asn Lys
 195 200 205
 Arg Lys Gln Lys Leu Pro Gln Gln Gln Gln Gln Ser Phe Gln Gln Leu
 210 215 220
 Val Ser Ala Arg Lys Glu Gln Lys Arg Glu Glu Arg Arg Gln Leu Lys
 225 230 235 240
 Gln Gln Leu Glu Asp Met Gln Lys Gln Leu Arg Gln Leu Gln Glu Lys
 245 250 255
 Phe Tyr Gln Ile Tyr Asp Ser Thr Asp Ser Glu Asn Asp Glu Asp Gly
 260 265 270
 Asn Leu Ser Glu Asp Ser Met Arg Ser Glu Ile Leu Asp Ala Arg Ala
 275 280 285
 Gln Asp Ser Val Gly Arg Ser Asp Asn Glu Met Cys Glu Leu Asp Pro
 290 295 300
 Gly Gln Phe Ile Asp Arg Ala Arg Ala Leu Ile Arg Glu Gln Glu Met
 305 310 315 320
 Ala Glu Asn Lys Pro Lys Arg Glu Gly Asn Asn Lys Glu Arg Asp His
 325 330 335
 Gly Pro Asn Ser Leu Gln Pro Glu Gly Lys His Leu Ala Glu Thr Leu
 340 345 350
 Lys Gln Glu Leu Asn Thr Ala Met Ser Gln Val Val Asp Thr Val Val
 355 360 365
 Lys Val Phe Ser Ala Lys Pro Ser Arg Gln Val Pro Gln Val Phe Pro
 370 375 380
 Pro Leu Gln Ile Pro Gln Ala Arg Phe Ala Val Asn Gly Glu Asn His
 385 390 395 400
 Asn Phe His Thr Ala Asn Gln Arg Leu Gln Cys Phe Gly Asp Val Ile
 405 410 415
 Ile Pro Asn Pro Leu Asp Thr Phe Gly Asn Val Gln Met Ala Ser Ser

420

39467A.txt.txt
425

430

Thr Asp Gln Thr Glu Ala Leu Pro Leu Val Val Arg Lys Asn Ser Ser
435 440 445

Asp Gln Ser Ala Ser Gly Pro Ala Ala Gly Gly His His Gln Pro Leu
450 455 460

His Gln Ser Pro Leu Ser Ala Thr Thr Gly Phe Thr Thr Ser Thr Phe
465 470 475 480

Arg His Pro Phe Pro Leu Pro Leu Met Ala Tyr Pro Phe Gln Ser Pro
485 490 495

Leu Gly Ala Pro Ser Gly Ser Phe Ser Gly Lys Asp Arg Ala Ser Pro
500 505 510

Glu Ser Leu Asp Leu Thr Arg Asp Thr Thr Ser Leu Arg Thr Lys Met
515 520 525

Ser Ser His His Leu Ser His His Pro Cys Ser Pro Ala His Pro Pro
530 535 540

Ser Thr Ala Glu Gly Leu Ser Leu Ser Leu Ile Lys Ser Glu Cys Gly
545 550 555 560

Asp Leu Gln Asp Met Ser Glu Ile Ser Pro Tyr Ser Gly Ser Ala Met
565 570 575

Gln Glu Gly Leu Ser Pro Asn His Leu Lys Lys Ala Lys Leu Met Phe
580 585 590

Phe Tyr Thr Arg Tyr Pro Ser Ser Asn Met Leu Lys Thr Tyr Phe Ser
595 600 605

Asp Val Lys Phe Asn Arg Cys Ile Thr Ser Gln Leu Ile Lys Trp Phe
610 615 620

Ser Asn Phe Arg Glu Phe Tyr Tyr Ile Gln Met Glu Lys Tyr Ala Arg
625 630 635 640

Gln Ala Ile Asn Asp Gly Val Thr Ser Thr Glu Glu Leu Ser Ile Thr
645 650 655

Arg Asp Cys Glu Leu Tyr Arg Ala Leu Asn Met His Tyr Asn Lys Ala
660 665 670

Asn Asp Phe Glu Val Pro Glu Arg Phe Leu Glu Val Ala Gln Ile Thr
675 680 685

Leu Arg Glu Phe Phe Asn Ala Ile Ile Ala Gly Lys Asp Val Asp Pro

39467A.txt.txt
700

690

695

Ser Trp Lys Lys Ala Ile Tyr Lys Val Ile Cys Lys Leu Asp Ser Glu
 705 710 715 720

Val Pro Glu Ile Phe Lys Ser Pro Asn Cys Leu Gln Glu Leu Leu His
 725 730 735

Glu

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 <213> Homo sapiens

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 <223> Prox-1 A16 sense

<400> 4
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21

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 <213> Homo sapiens

<220>
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 <223> Prox-1 A16 antisense

<400> 5
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21

<210> 6
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 <212> RNA
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<400> 6
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21

<210> 7
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<400> 7

39467A.txt.txt

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21

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<220>
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 <223> EGFP A18 sense

<400> 8
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21

<210> 9
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 <213> Homo sapiens

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 <223> EGFP A18 antisense

<400> 9
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21

<210> 10
 <211> 3362
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<220>
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<400> 10
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 cacacgtgca atccctgaac tgacaaaact gctaaatgac gaggaccagg tggtgggttaa 720
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39467A.txt.txt

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gacctatact tacgaaaaac tactgtggac cacaagcaga gtgctgaagg tgctatctgt	1260
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caataattat aagaacaaga tgatggtctg ccaagtgggt ggtatagagg ctcttgctgcg	1560
tactgtcctt cgggctggtg acagggaaga catcactgag cctgccatct gtgctcttcg	1620
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39467A.txt.txt

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ccttgcttgt taaaattttt tttttttttt ttttaagaat atctgtaatg gtactgactt 2880
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tt 3362

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<210> 11
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 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Beta-catenin

<400> 11

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1 5 10 15

Asp Arg Lys Ala Ala Val Ser His Trp Gln Gln Gln Ser Tyr Leu Asp
20 25 30

Ser Gly Ile His Ser Gly Ala Thr Thr Thr Ala Pro Ser Leu Ser Gly
35 40 45

Lys Gly Asn Pro Glu Glu Glu Asp Val Asp Thr Ser Gln Val Leu Tyr
50 55 60

Glu Trp Glu Gln Gly Phe Ser Gln Ser Phe Thr Gln Glu Gln Val Ala
65 70 75 80

Asp Ile Asp Gly Gln Tyr Ala Met Thr Arg Ala Gln Arg Val Arg Ala
85 90 95

Ala Met Phe Pro Glu Thr Leu Asp Glu Gly Met Gln Ile Pro Ser Thr
100 105 110

Gln Phe Asp Ala Ala His Pro Thr Asn Val Gln Arg Leu Ala Glu Pro
115 120 125

Ser Gln Met Leu Lys His Ala Val Val Asn Leu Ile Asn Tyr Gln Asp
130 135 140

39467A.txt.txt

Asp Ala Glu Leu Ala Thr Arg Ala Ile Pro Glu Leu Thr Lys Leu Leu
 145 150 155 160

Asn Asp Glu Asp Gln Val Val Val Asn Lys Ala Ala Val Met Val His
 165 170 175

Gln Leu Ser Lys Lys Glu Ala Ser Arg His Ala Ile Met Arg Ser Pro
 180 185 190

Gln Met Val Ser Ala Ile Val Arg Thr Met Gln Asn Thr Asn Asp Val
 195 200 205

Glu Thr Ala Arg Cys Thr Ala Gly Thr Leu His Asn Leu Ser His His
 210 215 220

Arg Glu Gly Leu Leu Ala Ile Phe Lys Ser Gly Gly Ile Pro Ala Leu
 225 230 235 240

Val Lys Met Leu Gly Ser Pro Val Asp Ser Val Leu Phe Tyr Ala Ile
 245 250 255

Thr Thr Leu His Asn Leu Leu Leu His Gln Glu Gly Ala Lys Met Ala
 260 265 270

Val Arg Leu Ala Gly Gly Leu Gln Lys Met Val Ala Leu Leu Asn Lys
 275 280 285

Thr Asn Val Lys Phe Leu Ala Ile Thr Thr Asp Cys Leu Gln Ile Leu
 290 295 300

Ala Tyr Gly Asn Gln Glu Ser Lys Leu Ile Ile Leu Ala Ser Gly Gly
 305 310 315 320

Pro Gln Ala Leu Val Asn Ile Met Arg Thr Tyr Thr Tyr Glu Lys Leu
 325 330 335

Leu Trp Thr Thr Ser Arg Val Leu Lys Val Leu Ser Val Cys Ser Ser
 340 345 350

Asn Lys Pro Ala Ile Val Glu Ala Gly Gly Met Gln Ala Leu Gly Leu
 355 360 365

His Leu Thr Asp Pro Ser Gln Arg Leu Val Gln Asn Cys Leu Trp Thr
 370 375 380

Leu Arg Asn Leu Ser Asp Ala Ala Thr Lys Gln Glu Gly Met Glu Gly
 385 390 395 400

Leu Leu Gly Thr Leu Val Gln Leu Leu Gly Ser Asp Asp Ile Asn Val
 405 410 415

39467A.txt.txt

Val Thr Cys Ala Ala Gly Ile Leu Ser Asn Leu Thr Cys Asn Asn Tyr
 420 425 430
 Lys Asn Lys Met Met Val Cys Gln Val Gly Gly Ile Glu Ala Leu Val
 435 440 445
 Arg Thr Val Leu Arg Ala Gly Asp Arg Glu Asp Ile Thr Glu Pro Ala
 450 455 460
 Ile Cys Ala Leu Arg His Leu Thr Ser Arg His Gln Glu Ala Glu Met
 465 470 475 480
 Ala Gln Asn Ala Val Arg Leu His Tyr Gly Leu Pro Val Val Val Lys
 485 490 495
 Leu Leu His Pro Pro Ser His Trp Pro Leu Ile Lys Ala Thr Val Gly
 500 505 510
 Leu Ile Arg Asn Leu Ala Leu Cys Pro Ala Asn His Ala Pro Leu Arg
 515 520 525
 Glu Gln Gly Ala Ile Pro Arg Leu Val Gln Leu Leu Val Arg Ala His
 530 535 540
 Gln Asp Thr Gln Arg Arg Thr Ser Met Gly Gly Thr Gln Gln Gln Phe
 545 550 555 560
 Val Glu Gly Val Arg Met Glu Glu Ile Val Glu Gly Cys Thr Gly Ala
 565 570 575
 Leu His Ile Leu Ala Arg Asp Val His Asn Arg Ile Val Ile Arg Gly
 580 585 590
 Leu Asn Thr Ile Pro Leu Phe Val Gln Leu Leu Tyr Ser Pro Ile Glu
 595 600 605
 Asn Ile Gln Arg Val Ala Ala Gly Val Leu Cys Glu Leu Ala Gln Asp
 610 615 620
 Lys Glu Ala Ala Glu Ala Ile Glu Ala Glu Gly Ala Thr Ala Pro Leu
 625 630 635 640
 Thr Glu Leu Leu His Ser Arg Asn Glu Gly Val Ala Thr Tyr Ala Ala
 645 650 655
 Ala Val Leu Phe Arg Met Ser Glu Asp Lys Pro Gln Asp Tyr Lys Lys
 660 665 670
 Arg Leu Ser Val Glu Leu Thr Ser Ser Leu Phe Arg Thr Glu Pro Met
 675 680 685

39467A.txt.txt

Ala Trp Asn Glu Thr Ala Asp Leu Gly Leu Asp Ile Gly Ala Gln Gly
690 695 700

Glu Pro Leu Gly Tyr Arg Gln Asp Asp Pro Ser Tyr Arg Ser Phe His
705 710 715 720

Ser Gly Gly Tyr Gly Gln Asp Ala Leu Gly Met Asp Pro Met Met Glu
725 730 735

His Glu Met Gly Gly His His Pro Gly Ala Asp Tyr Pro Val Asp Gly
740 745 750

Leu Pro Asp Leu Gly His Ala Gln Asp Leu Met Asp Gly Leu Pro Pro
755 760 765

Gly Asp Ser Asn Gln Leu Ala Trp Phe Asp Thr Asp Leu
770 775 780

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<212> DNA
<213> Homo sapiens

<220>
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<223> TCF-4

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39467A.txt.txt

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<210> 13
<211> 667
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> TCF-4

<400> 13

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1 5 10 15

39467A.txt.txt

Ser Asp Leu Leu Asp Phe Ser Ala Met Phe Ser Pro Pro Val Ser Ser
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 Gly Lys Asn Gly Pro Thr Ser Leu Ala Ser Gly His Phe Thr Gly Ser
 35 40 45
 Asn Val Glu Asp Arg Ser Ser Ser Gly Ser Trp Gly Asn Gly Gly His
 50 55 60
 Pro Ser Pro Ser Arg Asn Tyr Gly Asp Gly Thr Pro Tyr Asp His Met
 65 70 75 80
 Thr Ser Arg Asp Leu Gly Ser His Asp Asn Leu Ser Pro Pro Phe Val
 85 90 95
 Asn Ser Arg Ile Gln Ser Lys Thr Glu Arg Gly Ser Tyr Ser Ser Tyr
 100 105 110
 Gly Arg Glu Ser Asn Leu Gln Gly Cys His Gln Gln Ser Leu Leu Gly
 115 120 125
 Gly Asp Met Asp Met Gly Asn Pro Gly Thr Leu Ser Pro Thr Lys Pro
 130 135 140
 Gly Ser Gln Tyr Tyr Gln Tyr Ser Ser Asn Asn Pro Arg Arg Arg Pro
 145 150 155 160
 Leu His Ser Ser Ala Met Glu Val Gln Thr Lys Lys Val Arg Lys Val
 165 170 175
 Pro Pro Gly Leu Pro Ser Ser Val Tyr Ala Pro Ser Ala Ser Thr Ala
 180 185 190
 Asp Tyr Asn Arg Asp Ser Pro Gly Tyr Pro Ser Ser Lys Pro Ala Thr
 195 200 205
 Ser Thr Phe Pro Ser Ser Phe Phe Met Gln Asp Gly His His Ser Ser
 210 215 220
 Asp Pro Trp Ser Ser Ser Ser Gly Met Asn Gln Pro Gly Tyr Ala Gly
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Ser Thr Pro Cys Lys Asn Ala Gly Thr Cys His Val Val Asp Arg Arg
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Asn Gly Gly Thr Cys Asp Leu Leu Thr Leu Thr Glu Tyr Lys Cys Arg
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 850 855 860
 Gln Thr Cys Glu Val Asp Ile Asn Glu Cys Val Leu Ser Pro Cys Arg
 865 870 875 880
 His Gly Ala Ser Cys Gln Asn Thr His Gly Gly Tyr Arg Cys His Cys
 885 890 895
 Gln Ala Gly Tyr Ser Gly Arg Asn Cys Glu Thr Asp Ile Asp Asp Cys
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 Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile Asn
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 Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys Glu
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 Glu Asp Ile Asn Glu Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn
 945 950 955 960
 Cys Thr Asp Cys Val Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe
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 Ser Gly Ile His Cys Glu Asn Asn Thr Pro Asp Cys Thr Glu Ser Ser
 980 985 990

39467A.txt.txt

Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser Phe Thr Cys
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 Cys Lys Asn Gly Gly Lys Cys Trp Gln Thr His Thr Gln Tyr Arg
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39467A.txt.txt

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 1370 1375 1380
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 Lys Asn Cys Thr Gln Ser Leu Gln Cys Trp Lys Tyr Phe Ser Asp
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39467A.txt.txt

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 1880 1885 1890
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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Notch-2

<400> 17

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 35 40 45

Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
 50 55 60

Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
 65 70 75 80

Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
 85 90 95

Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
 100 105 110

Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
 115 120 125

Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
 130 135 140

Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
 145 150 155 160

Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
 165 170 175

Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
 180 185 190

Gln His Gly Gly Thr Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
 195 200 205

Cys Pro Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
 210 215 220

Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly

39467A.txt.txt
235

225 230 240
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 260 265 270
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 275 280 285
 Gln Trp Thr Gly Gln Phe Cys Thr Glu Asp Val Asp Glu Cys Leu Leu
 290 295 300
 Gln Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys Ala Asn Arg Asn Gly
 305 310 315 320
 Gly Tyr Gly Cys Val Cys Val Asn Gly Trp Ser Gly Asp Asp Cys Ser
 325 330 335
 Glu Asn Ile Asp Asp Cys Ala Phe Ala Ser Cys Thr Pro Gly Ser Thr
 340 345 350
 Cys Ile Asp Arg Val Ala Ser Phe Ser Cys Met Cys Pro Glu Gly Lys
 355 360 365
 Ala Gly Leu Leu Cys His Leu Asp Asp Ala Cys Ile Ser Asn Pro Cys
 370 375 380
 His Lys Gly Ala Leu Cys Asp Thr Asn Pro Leu Asn Gly Gln Tyr Ile
 385 390 395 400
 Cys Thr Cys Pro Gln Gly Tyr Lys Gly Ala Asp Cys Thr Glu Asp Val
 405 410 415
 Asp Glu Cys Ala Met Ala Asn Ser Asn Pro Cys Glu His Ala Gly Lys
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 Cys Val Asn Thr Asp Gly Ala Phe His Cys Glu Cys Leu Lys Gly Tyr
 435 440 445
 Ala Gly Pro Arg Cys Glu Met Asp Ile Asn Glu Cys His Ser Asp Pro
 450 455 460
 Cys Gln Asn Asp Ala Thr Cys Leu Asp Lys Ile Gly Gly Phe Thr Cys
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 485 490 495
 Glu Cys Gln Ser Asn Pro Cys Val Asn Asn Gly Gln Cys Val Asp Lys

39467A.txt.txt
505

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510

Val Asn Arg Phe Gln Cys Leu Cys Pro Pro Gly Phe Thr Gly Pro Val
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Cys Gln Ile Asp Ile Asp Asp Cys Ser Ser Thr Pro Cys Leu Asn Gly
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Ala Lys Cys Ile Asp His Pro Asn Gly Tyr Glu Cys Gln Cys Ala Thr
545 550 555 560

Gly Phe Thr Gly Val Leu Cys Glu Glu Asn Ile Asp Asn Cys Asp Pro
565 570 575

Asp Pro Cys His His Gly Gln Cys Gln Asp Gly Ile Asp Ser Tyr Thr
580 585 590

Cys Ile Cys Asn Pro Gly Tyr Met Gly Ala Ile Cys Ser Asp Gln Ile
595 600 605

Asp Glu Cys Tyr Ser Ser Pro Cys Leu Asn Asp Gly Arg Cys Ile Asp
610 615 620

Leu Val Asn Gly Tyr Gln Cys Asn Cys Gln Pro Gly Thr Ser Gly Val
625 630 635 640

Asn Cys Glu Ile Asn Phe Asp Asp Cys Ala Ser Asn Pro Cys Ile His
645 650 655

Gly Ile Cys Met Asp Gly Ile Asn Arg Tyr Ser Cys Val Cys Ser Pro
660 665 670

Gly Phe Thr Gly Gln Arg Cys Asn Ile Asp Ile Asp Glu Cys Ala Ser
675 680 685

Asn Pro Cys Arg Lys Gly Ala Thr Cys Ile Asn Gly Val Asn Gly Phe
690 695 700

Arg Cys Ile Cys Pro Glu Gly Pro His His Pro Ser Cys Tyr Ser Gln
705 710 715 720

Val Asn Glu Cys Leu Ser Asn Pro Cys Ile His Gly Asn Cys Thr Gly
725 730 735

Gly Leu Ser Gly Tyr Lys Cys Leu Cys Asp Ala Gly Trp Val Gly Ile
740 745 750

Asn Cys Glu Val Asp Lys Asn Glu Cys Leu Ser Asn Pro Cys Gln Asn
755 760 765

Gly Gly Thr Cys Asp Asn Leu Val Asn Gly Tyr Arg Cys Thr Cys Lys

39467A.txt.txt
780

770

775

Lys Gly Phe Lys Gly Tyr Asn Cys Gln Val Asn Ile Asp Glu Cys Ala
785 790 795 800

Ser Asn Pro Cys Leu Asn Gln Gly Thr Cys Phe Asp Asp Ile Ser Gly
805 810 815

Tyr Thr Cys His Cys Val Leu Pro Tyr Thr Gly Lys Asn Cys Gln Thr
820 825 830

Val Leu Ala Pro Cys Ser Pro Asn Pro Cys Glu Asn Ala Ala Val Cys
835 840 845

Lys Glu Ser Pro Asn Phe Glu Ser Tyr Thr Cys Leu Cys Ala Pro Gly
850 855 860

Trp Gln Gly Gln Arg Cys Thr Ile Asp Ile Asp Glu Cys Ile Ser Lys
865 870 875 880

Pro Cys Met Asn His Gly Leu Cys His Asn Thr Gln Gly Ser Tyr Met
885 890 895

Cys Glu Cys Pro Pro Gly Phe Ser Gly Met Asp Cys Glu Glu Asp Ile
900 905 910

Asp Asp Cys Leu Ala Asn Pro Cys Gln Asn Gly Gly Ser Cys Met Asp
915 920 925

Gly Val Asn Thr Phe Ser Cys Leu Cys Leu Pro Gly Phe Thr Gly Asp
930 935 940

Lys Cys Gln Thr Asp Met Asn Glu Cys Leu Ser Glu Pro Cys Lys Asn
945 950 955 960

Gly Gly Thr Cys Ser Asp Tyr Val Asn Ser Tyr Thr Cys Lys Cys Gln
965 970 975

Ala Gly Phe Asp Gly Val His Cys Glu Asn Asn Ile Asn Glu Cys Thr
980 985 990

Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile Asn Ser
995 1000 1005

Phe Ser Cys Leu Cys Pro Val Gly Phe Thr Gly Ser Phe Cys Leu
1010 1015 1020

His Glu Ile Asn Glu Cys Ser Ser His Pro Cys Leu Asn Glu Gly
1025 1030 1035

Thr Cys Val Asp Gly Leu Gly Thr Tyr Arg Cys Ser Cys Pro Leu

39467A.txt.txt

1040

1045

1050

Gly Tyr Thr Gly Lys Asn Cys Gln Thr Leu Val Asn Leu Cys Ser
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 Arg Ser Pro Cys Lys Asn Lys Gly Thr Cys Val Gln Lys Lys Ala
 1070 1075 1080
 Glu Ser Gln Cys Leu Cys Pro Ser Gly Trp Ala Gly Ala Tyr Cys
 1085 1090 1095
 Asp Val Pro Asn Val Ser Cys Asp Ile Ala Ala Ser Arg Arg Gly
 1100 1105 1110
 Val Leu Val Glu His Leu Cys Gln His Ser Gly Val Cys Ile Asn
 1115 1120 1125
 Ala Gly Asn Thr His Tyr Cys Gln Cys Pro Leu Gly Tyr Thr Gly
 1130 1135 1140
 Ser Tyr Cys Glu Glu Gln Leu Asp Glu Cys Ala Ser Asn Pro Cys
 1145 1150 1155
 Gln His Gly Ala Thr Cys Ser Asp Phe Ile Gly Gly Tyr Arg Cys
 1160 1165 1170
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 1190 1195 1200
 Asp Leu Val Asn His Phe Lys Cys Ser Cys Pro Pro Gly Thr Arg
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 1220 1225 1230
 His Cys Leu Asn Gly Gly Gln Cys Met Asp Arg Ile Gly Gly Tyr
 1235 1240 1245
 Ser Cys Arg Cys Leu Pro Gly Phe Ala Gly Glu Arg Cys Glu Gly
 1250 1255 1260
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 1265 1270 1275
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 1280 1285 1290
 Ser Ala Phe Thr Gly Arg His Cys Glu Thr Phe Val Asp Val Cys

39467A.txt.txt

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 Pro Gln Met Pro Cys Leu Asn Gly Gly Thr Cys Ala Val Ala Ser
 1310 1315 1320
 Asn Met Pro Asp Gly Phe Ile Cys Arg Cys Pro Pro Gly Phe Ser
 1325 1330 1335
 Gly Ala Arg Cys Gln Ser Ser Cys Gly Gln Val Lys Cys Arg Lys
 1340 1345 1350
 Gly Glu Gln Cys Val His Thr Ala Ser Gly Pro Arg Cys Phe Cys
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 Pro Ser Pro Arg Asp Cys Glu Ser Gly Cys Ala Ser Ser Pro Cys
 1370 1375 1380
 Gln His Gly Gly Ser Cys His Pro Gln Arg Gln Pro Pro Tyr Tyr
 1385 1390 1395
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 1400 1405 1410
 Tyr Thr Ala Pro Pro Ser Thr Pro Pro Ala Thr Cys Leu Ser Gln
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 Tyr Cys Ala Asp Lys Ala Arg Asp Gly Val Cys Asp Glu Ala Cys
 1430 1435 1440
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 1445 1450 1455
 Met Glu Asn Pro Trp Ala Asn Cys Ser Ser Pro Leu Pro Cys Trp
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 Lys Tyr Asp Lys Tyr Cys Ala Asp His Phe Lys Asp Asn His Cys
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39467A.txt.txt

1550

1555

1560

Ser Phe Leu Arg Ala Leu Gly Thr Leu Leu His Thr Asn Leu Arg
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Gly Glu Lys Ser Ala Ala Met Lys Lys Gln Arg Met Thr Arg Arg
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Ser Leu Pro Gly Glu Gln Gly Gln Glu Val Ala Gly Ser Lys Val
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Phe Leu Glu Ile Asp Asn Arg Gln Cys Val Gln Asp Ser Asp His
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Cys Phe Lys Asn Thr Asp Ala Ala Ala Ala Leu Leu Ala Ser His
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Ala Ile Gln Gly Thr Leu Ser Tyr Pro Leu Val Ser Val Val Ser
 1655 1660 1665

Glu Ser Leu Thr Pro Glu Arg Thr Gln Leu Leu Tyr Leu Leu Ala
 1670 1675 1680

Val Ala Val Val Ile Ile Leu Phe Ile Ile Leu Leu Gly Val Ile
 1685 1690 1695

Met Ala Lys Arg Lys Arg Lys His Gly Ser Leu Trp Leu Pro Glu
 1700 1705 1710

Gly Phe Thr Leu Arg Arg Asp Ala Ser Asn His Lys Arg Arg Glu
 1715 1720 1725

Pro Val Gly Gln Asp Ala Val Gly Leu Lys Asn Leu Ser Val Gln
 1730 1735 1740

Val Ser Glu Ala Asn Leu Ile Gly Thr Gly Thr Ser Glu His Trp
 1745 1750 1755

Val Asp Asp Glu Gly Pro Gln Pro Lys Lys Val Lys Ala Glu Asp
 1760 1765 1770

Glu Ala Leu Leu Ser Glu Glu Asp Asp Pro Ile Asp Arg Arg Pro
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Trp Thr Gln Gln His Leu Glu Ala Ala Asp Ile Arg Arg Thr Pro
 1790 1795 1800

Ser Leu Ala Leu Thr Pro Pro Gln Ala Glu Gln Glu Val Asp Val

39467A.txt.txt

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 1835 1840 1845
 Glu Asp Ala Glu Asp Ser Ser Ala Asn Ile Ile Thr Asp Leu Val
 1850 1855 1860
 Tyr Gln Gly Ala Ser Leu Gln Ala Gln Thr Asp Arg Thr Gly Glu
 1865 1870 1875
 Met Ala Leu His Leu Ala Ala Arg Tyr Ser Arg Ala Asp Ala Ala
 1880 1885 1890
 Lys Arg Leu Leu Asp Ala Gly Ala Asp Ala Asn Ala Gln Asp Asn
 1895 1900 1905
 Met Gly Arg Cys Pro Leu His Ala Ala Val Ala Ala Asp Ala Gln
 1910 1915 1920
 Gly Val Phe Gln Ile Leu Ile Arg Asn Arg Val Thr Asp Leu Asp
 1925 1930 1935
 Ala Arg Met Asn Asp Gly Thr Thr Pro Leu Ile Leu Ala Ala Arg
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 1955 1960 1965
 Asp Val Asn Ala Val Asp Asp His Gly Lys Ser Ala Leu His Trp
 1970 1975 1980
 Ala Ala Ala Val Asn Asn Val Glu Ala Thr Leu Leu Leu Leu Lys
 1985 1990 1995
 Asn Gly Ala Asn Arg Asp Met Gln Asp Asn Lys Glu Glu Thr Pro
 2000 2005 2010
 Leu Phe Leu Ala Ala Arg Glu Gly Ser Tyr Glu Ala Ala Lys Ile
 2015 2020 2025
 Leu Leu Asp His Phe Ala Asn Arg Asp Ile Thr Asp His Met Asp
 2030 2035 2040
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 2045 2050 2055
 Val Arg Leu Leu Asp Glu Tyr Asn Val Thr Pro Ser Pro Pro Gly

39467A.txt.txt

2060

2065

2070

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 Ser Pro Asn Pro Met Leu Ala Thr Ala Ala Pro Pro Ala Pro Val
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 Pro Gln Ser Arg Pro Pro Glu Gly Lys His Ile Thr Thr Pro Arg
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 Ser Ile Ala Gln Pro Ala Gly Ala Pro Gln Pro Gln Ser Thr Cys

39467A.txt.txt

2315

2320

2325

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Glu Met Ala Arg Leu Pro Ser Val Ala Phe Pro Thr Ala Met Met
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Pro Gln Gln Asp Gly Gln Val Ala Gln Thr Ile Leu Pro Ala Tyr
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Gln His Ser Tyr Ala Ser Ser Asn Ala Ala Glu Arg Thr Pro Ser
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Ser Asp Trp Ser Asp Val Thr Thr Ser Pro Thr Pro Gly Gly Ala
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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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<400> 19

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39467A.txt.txt

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 35 40 45
 Cys Ala Asn Gly Gly Arg Cys Thr Gln Leu Pro Ser Arg Glu Ala Ala
 50 55 60
 Cys Leu Cys Pro Pro Gly Trp Val Gly Glu Arg Cys Gln Leu Glu Asp
 65 70 75 80
 Pro Cys His Ser Gly Pro Cys Ala Gly Arg Gly Val Cys Gln Ser Ser
 85 90 95
 Val Val Ala Gly Thr Ala Arg Phe Ser Cys Arg Cys Pro Arg Gly Phe
 100 105 110
 Arg Gly Pro Asp Cys Ser Leu Pro Asp Pro Cys Leu Ser Ser Pro Cys
 115 120 125
 Ala His Gly Ala Arg Cys Ser Val Gly Pro Asp Gly Arg Phe Leu Cys
 130 135 140
 Ser Cys Pro Pro Gly Tyr Gln Gly Arg Ser Cys Arg Ser Asp Val Asp
 145 150 155 160
 Glu Cys Arg Val Gly Glu Pro Cys Arg His Gly Gly Thr Cys Leu Asn
 165 170 175
 Thr Pro Gly Ser Phe Arg Cys Gln Cys Pro Ala Gly Tyr Thr Gly Pro
 180 185 190
 Leu Cys Glu Asn Pro Ala Val Pro Cys Ala Pro Ser Pro Cys Arg Asn
 195 200 205
 Gly Gly Thr Cys Arg Gln Ser Gly Asp Leu Thr Tyr Asp Cys Ala Cys
 210 215 220
 Leu Pro Gly Phe Glu Gly Gln Asn Cys Glu Val Asn Val Asp Asp Cys
 225 230 235 240
 Pro Gly His Arg Cys Leu Asn Gly Gly Thr Cys Val Asp Gly Val Asn
 245 250 255
 Thr Tyr Asn Cys Gln Cys Pro Pro Glu Trp Thr Gly Gln Phe Cys Thr
 260 265 270
 Glu Asp Val Asp Glu Cys Gln Leu Gln Pro Asn Ala Cys His Asn Gly
 275 280 285

39467A.txt.txt

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 340 345 350

Asp Ala Cys Val Ser Asn Pro Cys His Glu Asp Ala Ile Cys Asp Thr
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Asn Pro Val Asn Gly Arg Ala Ile Cys Thr Cys Pro Pro Gly Phe Thr
 370 375 380

Gly Gly Ala Cys Asp Gln Asp Val Asp Glu Cys Ser Ile Gly Ala Asn
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Pro Cys Glu His Leu Gly Arg Cys Val Asn Thr Gln Gly Ser Phe Leu
 405 410 415

Cys Gln Cys Gly Arg Gly Tyr Thr Gly Pro Arg Cys Glu Thr Asp Val
 420 425 430

Asn Glu Cys Leu Ser Gly Pro Cys Arg Asn Gln Ala Thr Cys Leu Asp
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Arg Ile Gly Gln Phe Thr Cys Ile Cys Met Ala Gly Phe Thr Gly Thr
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Gly Gly Val Cys Lys Asp Arg Val Asn Gly Phe Ser Cys Thr Cys Pro
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Ser Gly Phe Ser Gly Ser Thr Cys Gln Leu Asp Val Asp Glu Cys Ala
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Ser Thr Pro Cys Arg Asn Gly Ala Lys Cys Val Asp Gln Pro Asp Gly
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Tyr Glu Cys Arg Cys Ala Glu Gly Phe Glu Gly Thr Leu Cys Asp Arg
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Asn Val Asp Asp Cys Ser Pro Asp Pro Cys His His Gly Arg Cys Val
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39467A.txt.txt

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 His Gly Gly Lys Cys Leu Asp Leu Val Asp Lys Tyr Leu Cys Arg Cys
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 Pro Ser Gly Thr Thr Gly Val Asn Cys Glu Val Asn Ile Asp Asp Cys
 610 615 620
 Ala Ser Asn Pro Cys Thr Phe Gly Val Cys Arg Asp Gly Ile Asn Arg
 625 630 635 640
 Tyr Asp Cys Val Cys Gln Pro Gly Phe Thr Gly Pro Leu Cys Asn Val
 645 650 655
 Glu Ile Asn Glu Cys Ala Ser Ser Pro Cys Gly Glu Gly Gly Ser Cys
 660 665 670
 Val Asp Gly Glu Asn Gly Phe Arg Cys Leu Cys Pro Pro Gly Ser Leu
 675 680 685
 Pro Pro Leu Cys Leu Pro Pro Ser His Pro Cys Ala His Glu Pro Cys
 690 695 700
 Ser His Gly Ile Cys Tyr Asp Ala Pro Gly Gly Phe Arg Cys Val Cys
 705 710 715 720
 Glu Pro Gly Trp Ser Gly Pro Arg Cys Ser Gln Ser Leu Ala Arg Asp
 725 730 735
 Ala Cys Glu Ser Gln Pro Cys Arg Ala Gly Gly Thr Cys Ser Ser Asp
 740 745 750
 Gly Met Gly Phe His Cys Thr Cys Pro Pro Gly Val Gln Gly Arg Gln
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 Cys Glu Leu Leu Ser Pro Cys Thr Pro Asn Pro Cys Glu His Gly Gly
 770 775 780
 Arg Cys Glu Ser Ala Pro Gly Gln Leu Pro Val Cys Ser Cys Pro Gln
 785 790 795 800
 Gly Trp Gln Gly Pro Arg Cys Gln Gln Asp Val Asp Glu Cys Ala Gly
 805 810 815
 Pro Ala Pro Cys Gly Pro His Gly Ile Cys Thr Asn Leu Ala Gly Ser
 820 825 830

39467A.txt.txt

Phe Ser Cys Thr Cys His Gly Gly Tyr Thr Gly Pro Ser Cys Asp Gln
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Asp Ile Asn Asp Cys Asp Pro Asn Pro Cys Leu Asn Gly Gly Ser Cys
 850 855 860

Gln Asp Gly Val Gly Ser Phe Ser Cys Ser Cys Leu Pro Gly Phe Ala
 865 870 875 880

Gly Pro Arg Cys Ala Arg Asp Val Asp Glu Cys Leu Ser Asn Pro Cys
 885 890 895

Gly Pro Gly Thr Cys Thr Asp His Val Ala Ser Phe Thr Cys Thr Cys
 900 905 910

Pro Pro Gly Tyr Gly Gly Phe His Cys Glu Gln Asp Leu Pro Asp Cys
 915 920 925

Ser Pro Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Val Asn
 930 935 940

Ser Phe Ser Cys Leu Cys Arg Pro Gly Tyr Thr Gly Ala His Cys Gln
 945 950 955 960

His Glu Ala Asp Pro Cys Leu Ser Arg Pro Cys Leu His Gly Gly Val
 965 970 975

Cys Ser Ala Ala His Pro Gly Phe Arg Cys Thr Cys Leu Glu Ser Phe
 980 985 990

Thr Gly Pro Gln Cys Gln Thr Leu Val Asp Trp Cys Ser Arg Gln Pro
 995 1000 1005

Cys Gln Asn Gly Gly Arg Cys Val Gln Thr Gly Ala Tyr Cys Leu
 1010 1015 1020

Cys Pro Pro Gly Trp Ser Gly Arg Leu Cys Asp Ile Arg Ser Leu
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Pro Cys Arg Glu Ala Ala Ala Gln Ile Gly Val Arg Leu Glu Gln
 1040 1045 1050

Leu Cys Gln Ala Gly Gly Gln Cys Val Asp Glu Asp Ser Ser His
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Tyr Cys Val Cys Pro Glu Gly Arg Thr Gly Ser His Cys Glu Gln
 1070 1075 1080

Glu Val Asp Pro Cys Leu Ala Gln Pro Cys Gln His Gly Gly Thr
 1085 1090 1095

39467A.txt.txt

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 Gln Pro Cys Gln His Gly Gly Ser Cys Ile Asp Leu Val Ala Arg
 1130 1135 1140
 Tyr Leu Cys Ser Cys Pro Pro Gly Thr Leu Gly Val Leu Cys Glu
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 Gln Pro Phe Trp Gly Pro Arg Cys Glu Arg Val Ala Arg Ser Cys
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 Arg Glu Leu Gln Cys Pro Val Gly Val Pro Cys Gln Gln Thr Pro
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 Cys Ala Ala Ala Pro Cys Leu His Gly Gly Ser Cys Arg Pro Ala
 1340 1345 1350

39467A.txt.txt

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 Gln Arg Cys Asp Arg Glu Cys Asn Ser Pro Gly Cys Gly Trp Asp
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 Glu Ala Leu Gln Cys Trp Arg Leu Phe Asn Asn Ser Arg Cys Asp
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39467A.txt.txt

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39467A.txt.txt

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 Asn Arg 1895 Ser Thr Asp Leu Asp 1900 Ala Arg Met Ala Asp 1905 Gly Ser Thr
 Ala Leu 1910 Ile Leu Ala Ala Arg 1915 Leu Ala Val Glu Gly 1920 Met Val Glu
 Glu Leu 1925 Ile Ala Ser His Ala 1930 Asp Val Asn Ala Val 1935 Asp Glu Leu
 Gly Lys 1940 Ser Ala Leu His Trp 1945 Ala Ala Ala Val Asn 1950 Asn Val Glu
 Ala Thr 1955 Leu Ala Leu Leu Lys 1960 Asn Gly Ala Asn Lys 1965 Asp Met Gln
 Asp Ser 1970 Lys Glu Glu Thr Pro 1975 Leu Phe Leu Ala Ala 1980 Arg Glu Gly
 Ser Tyr 1985 Glu Ala Ala Lys Leu 1990 Leu Leu Asp His Phe 1995 Ala Asn Arg
 Glu Ile 2000 Thr Asp His Leu Asp 2005 Arg Leu Pro Arg Asp 2010 Val Ala Gln
 Glu Arg 2015 Leu His Gln Asp Ile 2020 Val Arg Leu Leu Asp 2025 Gln Pro Ser
 Gly Pro 2030 Arg Ser Pro Pro Gly 2035 Pro His Gly Leu Gly 2040 Pro Leu Leu
 Cys Pro 2045 Pro Gly Ala Phe Leu 2050 Pro Gly Leu Lys Ala 2055 Ala Gln Ser
 Gly Ser 2060 Lys Lys Ser Arg Arg 2065 Pro Pro Gly Lys Ala 2070 Gly Leu Gly
 Pro Gln 2075 Gly Pro Arg Gly Arg 2080 Gly Lys Lys Leu Thr 2085 Leu Ala Cys
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 Ser Leu 2105 Asp Ser Pro Arg Pro 2110 Phe Gly Gly Pro Pro 2115 Ala Ser Pro

39467A.txt.txt

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 Gln Leu Leu Asn Pro Gly Thr Pro Val Ser Pro Gln Glu Arg Pro
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 Ala Gly Ala His Ser Ser Pro Pro Lys Ala Arg Phe Leu Arg Val
 2225 2230 2235
 Pro Ser Glu His Pro Tyr Leu Thr Pro Ser Pro Glu Ser Pro Glu
 2240 2245 2250
 His Trp Ala Ser Pro Ser Pro Pro Ser Leu Ser Asp Trp Ser Glu
 2255 2260 2265
 Ser Thr Pro Ser Pro Ala Thr Ala Thr Gly Ala Met Ala Thr Thr
 2270 2275 2280
 Thr Gly Ala Leu Pro Ala Gln Pro Leu Pro Leu Ser Val Pro Ser
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39467A.txt.txt

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39467A.txt.txt

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<400> 21

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Val Ser Val Val Arg Pro Arg Gly Leu Leu Cys Gly Ser Phe Pro Glu
20          25          30

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```

Pro Cys Ala Asn Gly Gly Thr Cys Leu Ser Leu Ser Leu Gly Gln Gly
35          40          45

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Thr Cys Gln Cys Ala Pro Gly Phe Leu Gly Glu Thr Cys Gln Phe Pro
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Asp Pro Cys Gln Asn Ala Gln Leu Cys Gln Asn Gly Gly Ser Cys Gln
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Ala Leu Leu Pro Ala Pro Leu Gly Leu Pro Ser Ser Pro Ser Pro Leu
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```

```

Thr Pro Ser Phe Leu Cys Thr Cys Leu Pro Gly Phe Thr Gly Glu Arg
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Cys Gln Ala Lys Leu Glu Asp Pro Cys Pro Pro Ser Phe Cys Ser Lys
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39467A.txt.txt

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 165 170 175
 Ile Gln Cys His Cys Pro Pro Gly Phe Glu Gly His Ala Cys Glu Arg
 180 185 190
 Asp Val Asn Glu Cys Phe Gln Asp Pro Gly Pro Cys Pro Lys Gly Thr
 195 200 205
 Ser Cys His Asn Thr Leu Gly Ser Phe Gln Cys Leu Cys Pro Val Gly
 210 215 220
 Gln Glu Gly Pro Arg Cys Glu Leu Arg Ala Gly Pro Cys Pro Pro Arg
 225 230 235 240
 Gly Cys Ser Asn Gly Gly Thr Cys Gln Leu Met Pro Glu Lys Asp Ser
 245 250 255
 Thr Phe His Leu Cys Leu Cys Pro Pro Gly Phe Ile Gly Pro Gly Cys
 260 265 270
 Glu Val Asn Pro Asp Asn Cys Val Ser His Gln Cys Gln Asn Gly Gly
 275 280 285
 Thr Cys Gln Asp Gly Leu Asp Thr Tyr Thr Cys Leu Cys Pro Glu Thr
 290 295 300
 Trp Thr Gly Trp Asp Cys Ser Glu Asp Val Asp Glu Cys Glu Ala Gln
 305 310 315 320
 Gly Pro Pro His Cys Arg Asn Gly Gly Thr Cys Gln Asn Ser Ala Gly
 325 330 335
 Ser Phe His Cys Val Cys Val Ser Gly Trp Gly Gly Thr Ser Cys Glu
 340 345 350
 Glu Asn Leu Asp Asp Cys Ile Ala Ala Thr Cys Ala Pro Gly Ser Thr
 355 360 365
 Cys Ile Asp Arg Val Gly Ser Phe Ser Cys Leu Cys Pro Pro Gly Arg
 370 375 380
 Thr Gly Leu Leu Cys His Leu Glu Asp Met Cys Leu Ser Gln Pro Cys
 385 390 395 400

39467A.txt.txt

His Gly Asp Ala Gln Cys Ser Thr Asn Pro Leu Thr Gly Ser Thr Leu
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 Cys Leu Cys Gln Pro Gly Tyr Ser Gly Pro Thr Cys His Gln Asp Leu
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 Asp Glu Cys Leu Met Ala Gln Gln Gly Pro Ser Pro Cys Glu His Gly
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 Gly Ser Cys Leu Asn Thr Pro Gly Ser Phe Asn Cys Leu Cys Pro Pro
 450 455 460
 Gly Tyr Thr Gly Ser Arg Cys Glu Ala Asp His Asn Glu Cys Leu Ser
 465 470 475 480
 Gln Pro Cys His Pro Gly Ser Thr Cys Leu Asp Leu Leu Ala Thr Phe
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 515 520 525
 Asp Leu Leu Asn Gly Phe Gln Cys Ile Cys Leu Pro Gly Phe Ser Gly
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 Thr Arg Cys Glu Glu Asp Ile Asp Glu Cys Arg Ser Ser Pro Cys Ala
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 Asn Gly Gly Gln Cys Gln Asp Gln Pro Gly Ala Phe His Cys Lys Cys
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 580 585 590
 Leu Ser Asp Pro Cys Pro Val Gly Ala Ser Cys Leu Asp Leu Pro Gly
 595 600 605
 Ala Phe Phe Cys Leu Cys Pro Ser Gly Phe Thr Gly Gln Leu Cys Glu
 610 615 620
 Val Pro Leu Cys Ala Pro Asn Leu Cys Gln Pro Lys Gln Ile Cys Lys
 625 630 635 640
 Asp Gln Lys Asp Lys Ala Asn Cys Leu Cys Pro Asp Gly Ser Pro Gly
 645 650 655
 Cys Ala Pro Pro Glu Asp Asn Cys Thr Cys His His Gly His Cys Gln
 660 665 670

39467A.txt.txt

Arg Ser Ser Cys Val Cys Asp Val Gly Trp Thr Gly Pro Glu Cys Glu
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 Ala Glu Leu Gly Gly Cys Ile Ser Ala Pro Cys Ala His Gly Gly Thr
 690 695 700
 Cys Tyr Pro Gln Pro Ser Gly Tyr Asn Cys Thr Cys Pro Thr Gly Tyr
 705 710 715 720
 Thr Gly Pro Thr Cys Ser Glu Glu Met Thr Ala Cys His Ser Gly Pro
 725 730 735
 Cys Leu Asn Gly Gly Ser Cys Asn Pro Ser Pro Gly Gly Tyr Tyr Cys
 740 745 750
 Thr Cys Pro Pro Ser His Thr Gly Pro Gln Cys Gln Thr Ser Thr Asp
 755 760 765
 Tyr Cys Val Ser Ala Pro Cys Phe Asn Gly Gly Thr Cys Val Asn Arg
 770 775 780
 Pro Gly Thr Phe Ser Cys Leu Cys Ala Met Gly Phe Gln Gly Pro Arg
 785 790 795 800
 Cys Glu Gly Lys Leu Arg Pro Ser Cys Ala Asp Ser Pro Cys Arg Asn
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 Arg Ala Thr Cys Gln Asp Ser Pro Gln Gly Pro Arg Cys Leu Cys Pro
 820 825 830
 Thr Gly Tyr Thr Gly Gly Ser Cys Gln Thr Leu Met Asp Leu Cys Ala
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 Gln Lys Pro Cys Pro Arg Asn Ser His Cys Leu Gln Thr Gly Pro Ser
 850 855 860
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 Pro Leu Ser Ser Cys Gln Lys Ala Ala Leu Ser Gln Gly Ile Asp Val
 885 890 895
 Ser Ser Leu Cys His Asn Gly Gly Leu Cys Val Asp Ser Gly Pro Ser
 900 905 910
 Tyr Phe Cys His Cys Pro Pro Gly Phe Gln Gly Ser Leu Cys Gln Asp
 915 920 925
 His Val Asn Pro Cys Glu Ser Arg Pro Cys Gln Asn Gly Ala Thr Cys
 930 935 940

39467A.txt.txt

Met Ala Gln Pro Ser Gly Tyr Leu Cys Gln Cys Ala Pro Gly Tyr Asp
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 Gly Gln Asn Cys Ser Lys Glu Leu Asp Ala Cys Gln Ser Gln Pro Cys
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 His Asn His Gly Thr Cys Thr Pro Lys Pro Gly Gly Phe His Cys Ala
 980 985 990
 Cys Pro Pro Gly Phe Val Gly Leu Arg Cys Glu Gly Asp Val Asp Glu
 995 1000 1005
 Cys Leu Asp Gln Pro Cys His Pro Thr Gly Thr Ala Ala Cys His
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 Ser Leu Ala Asn Ala Phe Tyr Cys Gln Cys Leu Pro Gly His Thr
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 Gly Gln Trp Cys Glu Val Gly Ile Asp Pro Cys His Ser Gln Pro
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 Gly Phe Ile Cys His Cys Pro Lys Gly Phe Glu Gly Pro Thr Cys
 1070 1075 1080
 Ser His Arg Ala Pro Ser Cys Gly Phe His His Cys His His Gly
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 Gly Leu Cys Leu Pro Ser Pro Lys Pro Gly Phe Pro Pro Arg Cys
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 Ala Pro Lys Gly Cys Gly Pro Pro Ser Pro Cys Leu Tyr Asn Gly
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 Ser Cys Ser Glu Thr Thr Gly Leu Gly Gly Pro Gly Phe Arg Cys
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39467A.txt.txt

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 Cys Trp Leu Leu Phe Arg Asp Gly Gln Cys His Pro Gln Cys Asp
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 Ser Glu Glu Cys Leu Phe Asp Gly Tyr Asp Cys Glu Thr Pro Pro
 1235 1240 1245
 Ala Cys Thr Pro Ala Tyr Asp Gln Tyr Cys His Asp His Phe His
 1250 1255 1260
 Asn Gly His Cys Glu Lys Gly Cys Asn Thr Ala Glu Cys Gly Trp
 1265 1270 1275
 Asp Gly Gly Asp Cys Arg Pro Glu Asp Gly Asp Pro Glu Trp Gly
 1280 1285 1290
 Pro Ser Leu Ala Leu Leu Val Val Leu Ser Pro Pro Ala Leu Asp
 1295 1300 1305
 Gln Gln Leu Phe Ala Leu Ala Arg Val Leu Ser Leu Thr Leu Arg
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 Val Gly Leu Trp Val Arg Lys Asp Arg Asp Gly Arg Asp Met Val
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 1370 1375 1380
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 Arg Cys Pro Trp Asp Pro Gly Leu Leu Leu Arg Phe Leu Ala Ala
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39467A.txt.txt

Leu Ala Leu Gly Ala Leu Leu Val Leu Gln Leu Ile Arg Arg Arg
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 Ala Met Leu Thr Pro Pro Gln Glu Ser Glu Met Glu Ala Pro Asp
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 1835 1840 1845
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 1865 1870 1875
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 1880 1885 1890
 Ser His Cys Arg Ser Leu Ser Gly Val Gly Ala Gly Gly Gly Pro
 1895 1900 1905
 Thr Pro Arg Gly Arg Arg Phe Ser Ala Gly Met Arg Gly Pro Arg
 1910 1915 1920
 Pro Asn Pro Ala Ile Met Arg Gly Arg Tyr Gly Val Ala Ala Gly
 1925 1930 1935
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 1940 1945 1950
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 1955 1960 1965

39467A.txt.txt

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Lys Cys Thr Arg Asp Glu Cys Asp Thr Tyr Phe Lys Val Cys Leu Lys
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Glu Tyr Gln Ser Arg Val Thr Ala Gly Gly Pro Cys Ser Phe Gly Ser
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Gly Ser Thr Pro Val Ile Gly Gly Asn Thr Phe Asn Leu Lys Ala Ser
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Arg Gly Asn Asp Arg Asn Arg Ile Val Leu Pro Phe Ser Phe Ala Trp
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Thr Val Gln Pro Asp Ser Ile Ile Glu Lys Ala Ser His Ser Gly Met

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 Gly Phe Gly Cys Asn Lys Phe Cys Arg Pro Arg Asp Asp Phe Phe Gly
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 His Tyr Ala Cys Asp Gln Asn Gly Asn Lys Thr Cys Met Glu Gly Trp
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 Met Gly Pro Glu Cys Asn Arg Ala Ile Cys Arg Gln Gly Cys Ser Pro
 225 230 235 240
 Lys His Gly Ser Cys Lys Leu Pro Gly Asp Cys Arg Cys Gln Tyr Gly
 245 250 255
 Trp Gln Gly Leu Tyr Cys Asp Lys Cys Ile Pro His Pro Gly Cys Val
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 His Gly Ile Cys Asn Glu Pro Trp Gln Cys Leu Cys Glu Thr Asn Trp
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Gly Thr Thr Cys Asn Ile Ala Arg Asn Ser Ser Cys Leu Pro Asn Pro
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Cys His Asn Gly Gly Thr Cys Val Val Asn Gly Glu Ser Phe Thr Cys
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Val Cys Lys Glu Gly Trp Glu Gly Pro Ile Cys Ala Gln Asn Thr Asn
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785 790 795 800

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Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Val Cys Pro Pro
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39467A.txt.txt

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<400> 25

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Gln Leu Ser Ala Leu Arg Asn Val Asn Gly Glu Leu Leu Ser Gly Ala
35 40 45

39467A.txt.txt

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 Asp Glu Cys Asp Thr Tyr Val Arg Val Cys Leu Lys Glu Tyr Gln Ala
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 Lys Val Thr Pro Thr Gly Pro Cys Ser Tyr Gly His Gly Ala Thr Pro
 85 90 95
 Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
 100 105 110
 Asp Arg Ala Arg Ala Arg Ala Arg Ala Gly Gly Asp Gln Asp Pro Gly
 115 120 125
 Leu Val Val Ile Pro Phe Gln Phe Ala Trp Pro Arg Ser Phe Thr Leu
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 Ile Val Glu Ala Trp Asp Trp Asp Asn Asp Thr Thr Pro Asn Glu Glu
 145 150 155 160
 Leu Leu Ile Glu Arg Val Ser His Ala Gly Met Ile Asn Pro Glu Asp
 165 170 175
 Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
 180 185 190
 Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn
 195 200 205
 Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp
 210 215 220
 Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
 225 230 235 240
 Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
 245 250 255
 Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
 260 265 270
 Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
 275 280 285
 Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
 290 295 300
 Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
 305 310 315 320

39467A.txt.txt

Gly Thr Cys Ile Asn Ala Glu Pro Asp Gln Tyr Arg Cys Thr Cys Pro
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 Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr
 340 345 350
 Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly
 355 360 365
 Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu
 370 375 380
 Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
 385 390 395 400
 Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
 405 410 415
 Gly Ala Thr Cys Gln Leu Asp Ala Asn Glu Cys Glu Gly Lys Pro Cys
 420 425 430
 Leu Asn Ala Phe Ser Cys Lys Asn Leu Ile Gly Gly Tyr Tyr Cys Asp
 435 440 445
 Cys Ile Pro Gly Trp Lys Gly Ile Asn Cys His Ile Asn Val Asn Asp
 450 455 460
 Cys Arg Gly Gln Cys Gln His Gly Gly Thr Cys Lys Asp Leu Val Asn
 465 470 475 480
 Gly Tyr Gln Cys Val Cys Pro Arg Gly Phe Gly Gly Arg His Cys Glu
 485 490 495
 Leu Glu Arg Asp Glu Cys Ala Ser Ser Pro Cys His Ser Gly Gly Leu
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 Cys Glu Asp Leu Ala Asp Gly Phe His Cys His Cys Pro Gln Gly Phe
 515 520 525
 Ser Gly Pro Leu Cys Glu Val Asp Val Asp Leu Cys Glu Pro Ser Pro
 530 535 540
 Cys Arg Asn Gly Ala Arg Cys Tyr Asn Leu Glu Gly Asp Tyr Tyr Cys
 545 550 555 560
 Ala Cys Pro Asp Asp Phe Gly Gly Lys Asn Cys Ser Val Pro Arg Glu
 565 570 575
 Pro Cys Pro Gly Gly Ala Cys Arg Val Ile Asp Gly Cys Gly Ser Asp
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39467A.txt.txt

Ala Gly Pro Gly Met Pro Gly Thr Ala Ala Ser Gly Val Cys Gly Pro
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 His Gly Arg Cys Val Ser Gln Pro Gly Gly Asn Phe Ser Cys Ile Cys
 610 615 620
 Asp Ser Gly Phe Thr Gly Thr Tyr Cys His Glu Asn Ile Asp Asp Cys
 625 630 635 640
 Leu Gly Gln Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Glu Val Asp
 645 650 655
 Ala Phe Arg Cys Phe Cys Pro Ser Gly Trp Glu Gly Glu Leu Cys Asp
 660 665 670
 Thr Asn Pro Asn Asp Cys Leu Pro Asp Pro Cys His Ser Arg Gly Arg
 675 680 685
 Cys Tyr Asp Leu Val Asn Asp Phe Tyr Cys Ala Cys Asp Asp Gly Trp
 690 695 700
 Lys Gly Lys Thr Cys His Ser Arg Glu Phe Gln Cys Asp Ala Tyr Thr
 705 710 715 720
 Cys Ser Asn Gly Gly Thr Cys Tyr Asp Ser Gly Asp Thr Phe Arg Cys
 725 730 735
 Ala Cys Pro Pro Gly Trp Lys Gly Ser Thr Cys Ala Val Ala Lys Asn
 740 745 750
 Ser Ser Cys Leu Pro Asn Pro Cys Val Asn Gly Gly Thr Cys Val Gly
 755 760 765
 Ser Gly Ala Ser Phe Ser Cys Ile Cys Arg Asp Gly Trp Glu Gly Arg
 770 775 780
 Thr Cys Thr His Asn Thr Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn
 785 790 795 800
 Gly Gly Ile Cys Val Asp Gly Val Asn Trp Phe Arg Cys Glu Cys Ala
 805 810 815
 Pro Gly Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln
 820 825 830
 Ser Ser Pro Cys Ala Tyr Gly Ala Thr Cys Val Asp Glu Ile Asn Gly
 835 840 845
 Tyr Arg Cys Ser Cys Pro Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu
 850 855 860

39467A.txt.txt

Val Ile Gly Phe Gly Arg Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro
 865 870 875 880
 His Gly Ser Ser Trp Val Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp
 885 890 895
 Gly Arg Arg Asp Cys Ser Lys Val Trp Cys Gly Trp Lys Pro Cys Leu
 900 905 910
 Leu Ala Gly Gln Pro Glu Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln
 915 920 925
 Arg Cys Leu Glu Lys Ala Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu
 930 935 940
 Ala Trp Gly Glu Cys Gly Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu
 945 950 955 960
 Pro Arg Ser Gly His Leu Asp Asn Asn Cys Ala Arg Leu Thr Leu His
 965 970 975
 Phe Asn Arg Asp His Val Pro Gln Gly Thr Thr Val Gly Ala Ile Cys
 980 985 990
 Ser Gly Ile Arg Ser Leu Pro Ala Thr Arg Ala Val Ala Arg Asp Arg
 995 1000 1005
 Leu Leu Val Leu Leu Cys Asp Arg Ala Ser Ser Gly Ala Ser Ala
 1010 1015 1020
 Val Glu Val Ala Val Ser Phe Ser Pro Ala Arg Asp Leu Pro Asp
 1025 1030 1035
 Ser Ser Leu Ile Gln Gly Ala Ala His Ala Ile Val Ala Ala Ile
 1040 1045 1050
 Thr Gln Arg Gly Asn Ser Ser Leu Leu Leu Ala Val Thr Glu Val
 1055 1060 1065
 Lys Val Glu Thr Val Val Thr Gly Gly Ser Ser Thr Gly Leu Leu
 1070 1075 1080
 Val Pro Val Leu Cys Gly Ala Phe Ser Val Leu Trp Leu Ala Cys
 1085 1090 1095
 Val Val Leu Cys Val Trp Trp Thr Arg Lys Arg Arg Lys Glu Arg
 1100 1105 1110
 Glu Arg Ser Arg Leu Pro Arg Glu Glu Ser Ala Asn Asn Gln Trp
 1115 1120 1125

39467A.txt.txt

Ala Pro Leu Asn Pro Ile Arg Asn Pro Ile Glu Arg Pro Gly Gly
1130 1135 1140

His Lys Asp Val Leu Tyr Gln Cys Lys Asn Phe Thr Pro Pro Pro
1145 1150 1155

Arg Arg Ala Asp Glu Ala Leu Pro Gly Pro Ala Gly His Ala Ala
1160 1165 1170

Val Arg Glu Asp Glu Glu Asp Glu Asp Leu Gly Arg Gly Glu Glu
1175 1180 1185

Asp Ser Leu Glu Ala Glu Lys Phe Leu Ser His Lys Phe Thr Lys
1190 1195 1200

Asp Pro Gly Arg Ser Pro Gly Arg Pro Ala His Trp Ala Ser Gly
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Pro Lys Val Asp Asn Arg Ala Val Arg Ser Ile Asn Glu Ala Arg
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Tyr Ala Gly Lys Glu
1235

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<213> Homo sapiens

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<223> Jagged2, transcript variant 2

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39467A.txt.txt

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 <213> Homo sapiens

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 <223> Jagged2, transcript variant 2

<400> 27

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 Asp Glu Cys Asp Thr Tyr Val Arg Val Cys Leu Lys Glu Tyr Gln Ala
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 Lys Val Thr Pro Thr Gly Pro Cys Ser Tyr Gly His Gly Ala Thr Pro
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 Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
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 Leu Val Val Ile Pro Phe Gln Phe Ala Trp Pro Arg Ser Phe Thr Leu
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 Ile Val Glu Ala Trp Asp Trp Asp Asn Asp Thr Thr Pro Asn Glu Glu
 145 150 155 160
 Leu Leu Ile Glu Arg Val Ser His Ala Gly Met Ile Asn Pro Glu Asp
 165 170 175
 Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
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 Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn

39467A.txt.txt

195

200

205

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 Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
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 Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
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 Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
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 Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
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 Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
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 Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
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 Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr
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 Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly
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 Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
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 Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
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 Gly Ala Thr Cys Gln Leu Asp Val Asn Asp Cys Arg Gly Gln Cys Gln
 420 425 430
 His Gly Gly Thr Cys Lys Asp Leu Val Asn Gly Tyr Gln Cys Val Cys
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 Pro Arg Gly Phe Gly Gly Arg His Cys Glu Leu Glu Arg Asp Glu Cys
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 Ala Ser Ser Pro Cys His Ser Gly Gly Leu Cys Glu Asp Leu Ala Asp

475

115/166

740

39467A.txt.txt
745

750

Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn Gly Gly Ile Cys Val Asp
755 760 765

Gly Val Asn Trp Phe Arg Cys Glu Cys Ala Pro Gly Phe Ala Gly Pro
770 775 780

Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln Ser Ser Pro Cys Ala Tyr
785 790 795 800

Gly Ala Thr Cys Val Asp Glu Ile Asn Gly Tyr Arg Cys Ser Cys Pro
805 810 815

Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu Val Ile Gly Phe Gly Arg
820 825 830

Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro His Gly Ser Ser Trp Val
835 840 845

Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp Gly Arg Arg Asp Cys Ser
850 855 860

Lys Val Trp Cys Gly Trp Lys Pro Cys Leu Leu Ala Gly Gln Pro Glu
865 870 875 880

Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln Arg Cys Leu Glu Lys Ala
885 890 895

Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu Ala Trp Gly Glu Cys Gly
900 905 910

Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu Pro Arg Ser Gly His Leu
915 920 925

Asp Asn Asn Cys Ala Arg Leu Thr Leu His Phe Asn Arg Asp His Val
930 935 940

Pro Gln Gly Thr Thr Val Gly Ala Ile Cys Ser Gly Ile Arg Ser Leu
945 950 955 960

Pro Ala Thr Arg Ala Val Ala Arg Asp Arg Leu Leu Val Leu Leu Cys
965 970 975

Asp Arg Ala Ser Ser Gly Ala Ser Ala Val Glu Val Ala Val Ser Phe
980 985 990

Ser Pro Ala Arg Asp Leu Pro Asp Ser Ser Leu Ile Gln Gly Ala Ala
995 1000 1005

His Ala Ile Val Ala Ala Ile Thr Gln Arg Gly Asn Ser Ser Leu

39467A.txt.txt

1010

1015

1020

Leu Leu Ala Val Thr Glu Val Lys Val Glu Thr Val Val Thr Gly
 1025 1030 1035

Gly Ser Ser Thr Gly Leu Leu Val Pro Val Leu Cys Gly Ala Phe
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Ser Val Leu Trp Leu Ala Cys Val Val Leu Cys Val Trp Trp Thr
 1055 1060 1065

Arg Lys Arg Arg Lys Glu Arg Glu Arg Ser Arg Leu Pro Arg Glu
 1070 1075 1080

Glu Ser Ala Asn Asn Gln Trp Ala Pro Leu Asn Pro Ile Arg Asn
 1085 1090 1095

Pro Ile Glu Arg Pro Gly Gly His Lys Asp Val Leu Tyr Gln Cys
 1100 1105 1110

Lys Asn Phe Thr Pro Pro Pro Arg Arg Ala Asp Glu Ala Leu Pro
 1115 1120 1125

Gly Pro Ala Gly His Ala Ala Val Arg Glu Asp Glu Glu Asp Glu
 1130 1135 1140

Asp Leu Gly Arg Gly Glu Glu Asp Ser Leu Glu Ala Glu Lys Phe
 1145 1150 1155

Leu Ser His Lys Phe Thr Lys Asp Pro Gly Arg Ser Pro Gly Arg
 1160 1165 1170

Pro Ala His Trp Ala Ser Gly Pro Lys Val Asp Asn Arg Ala Val
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Arg Ser Ile Asn Glu Ala Arg Tyr Ala Gly Lys Glu
 1190 1195 1200

<210> 28
 <211> 3158
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Delta like 1 (Notch ligand)

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 tcccagaggtt gcctttcctc gggcatcctt ggtttcggcg ggacttcgca gggcggatat 120
 aaagaacggc gcctttggga agaggcggag accggcttta aagaaagaag tcttggtcct 180

39467A.txt.txt

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cccgaaggcg	ggggcgccga	ctccgcgttc	agcaacccca	tccgcttccc	cttcggcttc	660
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39467A.txt.txt

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<210> 29
 <211> 723
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Delta like 1 (Notch ligand)

<400> 29

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Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe
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Val Asn Lys Lys Gly Leu Leu Gly Asn Arg Asn Cys Cys Arg Gly Gly
35 40 45

Ala Gly Pro Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu
50 55 60

Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly
65 70 75 80

Ser Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp
85 90 95

39467A.txt.txt

Gly Gly Gly Ala Asp Ser Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe
 100 105 110

Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His
 115 120 125

Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile
 130 135 140

Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser
 145 150 155 160

Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg
 165 170 175

Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys
 180 185 190

Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly
 195 200 205

Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro
 210 215 220

Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro
 225 230 235 240

Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu
 245 250 255

Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp
 260 265 270

Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp
 275 280 285

Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys
 290 295 300

Thr Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr
 305 310 315 320

Thr Gly Ala Thr Cys Glu Leu Gly Ile Asp Glu Cys Asp Pro Ser Pro
 325 330 335

Cys Lys Asn Gly Gly Ser Cys Thr Asp Leu Glu Asn Ser Tyr Ser Cys
 340 345 350

Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met
 355 360 365

39467A.txt.txt

Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Ser
 370 375 380
 Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe
 385 390 395 400
 Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser Ser Ser Pro Cys Ser Asn
 405 410 415
 Gly Ala Lys Cys Val Asp Leu Gly Asp Ala Tyr Leu Cys Arg Cys Gln
 420 425 430
 Ala Gly Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala
 435 440 445
 Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp
 450 455 460
 Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala
 465 470 475 480
 Pro Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys
 485 490 495
 His Gln Arg Gly His Gly Tyr Val Cys Glu Cys Ala Arg Ser Tyr Gly
 500 505 510
 Gly Pro Asn Cys Gln Phe Leu Leu Pro Glu Leu Pro Pro Gly Pro Ala
 515 520 525
 Val Val Asp Leu Thr Glu Lys Leu Glu Gly Gln Gly Gly Pro Phe Pro
 530 535 540
 Trp Val Ala Val Cys Ala Gly Val Ile Leu Val Leu Met Leu Leu Leu
 545 550 555 560
 Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu Gln Lys His
 565 570 575
 Arg Pro Pro Ala Asp Pro Cys Arg Gly Glu Thr Glu Thr Met Asn Asn
 580 585 590
 Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
 595 600 605
 Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp
 610 615 620
 His Ser Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro Ala Val Asp
 625 630 635 640

39467A.txt.txt

Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Asp
645 650 655

Ala His Ser Lys Arg Asp Thr Lys Cys Gln Pro Gln Gly Ser Ser Gly
660 665 670

Glu Glu Lys Gly Thr Pro Thr Thr Leu Arg Gly Gly Glu Ala Ser Glu
675 680 685

Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr Ser Lys Asp Thr Lys Tyr
690 695 700

Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Val Ile Ala
705 710 715 720

Thr Glu Val

<210> 30
<211> 1971
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Delta like 3 (Notch ligand)

<400> 30
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39467A.txt.txt

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cctgcagcca tgccgcaatg gcggactctg cctggacctg ggccacgccc tgcgctgccg 1140
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<210> 31
 <211> 618
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Delta like 3 (Notch ligand)

<400> 31

Met Val Ser Pro Arg Met Ser Gly Leu Leu Ser Gln Thr Val Ile Leu
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Ala Leu Ile Phe Leu Pro Gln Thr Arg Pro Ala Gly Val Phe Glu Leu
 20 25 30

Gln Ile His Ser Phe Gly Pro Gly Pro Gly Pro Gly Ala Pro Arg Ser
 35 40 45

Pro Cys Ser Ala Arg Leu Pro Cys Arg Leu Phe Phe Arg Val Cys Leu
 50 55 60

Lys Pro Gly Leu Ser Glu Glu Ala Ala Glu Ser Pro Cys Ala Leu Gly
 65 70 75 80

Ala Ala Leu Ser Ala Arg Gly Pro Val Tyr Thr Glu Gln Pro Gly Ala

39467A.txt.txt

85

90

95

Pro Ala Pro Asp Leu Pro Leu Pro Asp Gly Leu Leu Gln Val Pro Phe
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Arg Asp Ala Trp Pro Gly Thr Phe Ser Phe Ile Ile Glu Thr Trp Arg
 115 120 125

Glu Glu Leu Gly Asp Gln Ile Gly Gly Pro Ala Trp Ser Leu Leu Ala
 130 135 140

Arg Val Ala Gly Arg Arg Arg Leu Ala Ala Gly Gly Pro Trp Ala Arg
 145 150 155 160

Asp Ile Gln Arg Ala Gly Ala Trp Glu Leu Arg Phe Ser Tyr Arg Ala
 165 170 175

Arg Cys Glu Pro Pro Ala Val Gly Thr Ala Cys Thr Arg Leu Cys Arg
 180 185 190

Pro Arg Ser Ala Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Ala
 195 200 205

Pro Leu Glu Asp Glu Cys Glu Ala Pro Leu Val Cys Arg Ala Gly Cys
 210 215 220

Ser Pro Glu His Gly Phe Cys Glu Gln Pro Gly Glu Cys Arg Cys Leu
 225 230 235 240

Glu Gly Trp Thr Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser
 245 250 255

Cys Leu Ser Pro Arg Gly Pro Ser Ser Ala Thr Thr Gly Cys Leu Val
 260 265 270

Pro Gly Pro Gly Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser
 275 280 285

Cys Ser Glu Thr Pro Arg Ser Phe Glu Cys Thr Cys Pro Arg Gly Phe
 290 295 300

Tyr Gly Leu Arg Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly Pro
 305 310 315 320

Cys Phe Asn Gly Gly Leu Cys Val Gly Gly Ala Asp Pro Asp Ser Ala
 325 330 335

Tyr Ile Cys His Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu Lys
 340 345 350

Arg Val Asp Arg Cys Ser Leu Gln Pro Cys Arg Asn Gly Gly Leu Cys

39467A.txt.txt

355

360

365

Leu Asp Leu Gly His Ala Leu Arg Cys Arg Cys Arg Ala Gly Phe Ala
 370 375 380

Gly Pro Arg Cys Glu His Asp Leu Asp Asp Cys Ala Gly Arg Ala Cys
 385 390 395 400

Ala Asn Gly Gly Thr Cys Val Glu Gly Gly Gly Ala His Arg Cys Ser
 405 410 415

Cys Ala Leu Gly Phe Gly Gly Arg Asp Cys Arg Glu Arg Ala Asp Pro
 420 425 430

Cys Ala Ala Arg Pro Cys Ala His Gly Gly Arg Cys Tyr Ala His Phe
 435 440 445

Ser Gly Leu Val Cys Ala Cys Ala Pro Gly Tyr Met Gly Ala Arg Cys
 450 455 460

Glu Phe Pro Val His Pro Asp Gly Ala Ser Ala Leu Pro Ala Ala Pro
 465 470 475 480

Pro Gly Leu Arg Pro Gly Asp Pro Gln Arg Tyr Leu Leu Pro Pro Ala
 485 490 495

Leu Gly Leu Leu Val Ala Ala Gly Val Ala Gly Ala Ala Leu Leu Leu
 500 505 510

Val His Val Arg Arg Arg Gly His Ser Gln Asp Ala Gly Ser Arg Leu
 515 520 525

Leu Ala Gly Thr Pro Glu Pro Ser Val His Ala Leu Pro Asp Ala Leu
 530 535 540

Asn Asn Leu Arg Thr Gln Glu Gly Ser Gly Asp Gly Pro Ser Ser Ser
 545 550 555 560

Val Asp Trp Asn Arg Pro Glu Asp Val Asp Pro Gln Gly Ile Tyr Val
 565 570 575

Ile Ser Ala Pro Ser Ile Tyr Ala Arg Glu Val Ala Thr Pro Leu Phe
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Pro Pro Leu His Thr Gly Arg Ala Gly Gln Arg Gln His Leu Leu Phe
 595 600 605

Pro Tyr Pro Ser Ser Ile Leu Ser Val Lys
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<210> 32

39467A.txt.txt

<211> 3383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Delta like 4 (Notch ligand)

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39467A.txt.txt

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 <213> Homo sapiens

<220>
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 <223> Delta like 4 (Notch ligand)
 <400> 33

39467A.txt.txt

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 20 25 30
 Gln Leu Gln Glu Phe Ile Asn Glu Arg Gly Val Leu Ala Ser Gly Arg
 35 40 45
 Pro Cys Glu Pro Gly Cys Arg Thr Phe Phe Arg Val Cys Leu Lys His
 50 55 60
 Phe Gln Ala Val Val Ser Pro Gly Pro Cys Thr Phe Gly Thr Val Ser
 65 70 75 80
 Thr Pro Val Leu Gly Thr Asn Ser Phe Ala Val Arg Asp Asp Ser Ser
 85 90 95
 Gly Gly Gly Arg Asn Pro Leu Gln Leu Pro Phe Asn Phe Thr Trp Pro
 100 105 110
 Gly Thr Phe Ser Leu Ile Ile Glu Ala Trp His Ala Pro Gly Asp Asp
 115 120 125
 Leu Arg Pro Glu Ala Leu Pro Pro Asp Ala Leu Ile Ser Lys Ile Ala
 130 135 140
 Ile Gln Gly Ser Leu Ala Val Gly Gln Asn Trp Leu Leu Asp Glu Gln
 145 150 155 160
 Thr Ser Thr Leu Thr Arg Leu Arg Tyr Ser Tyr Arg Val Ile Cys Ser
 165 170 175
 Asp Asn Tyr Tyr Gly Asp Asn Cys Ser Arg Leu Cys Lys Lys Arg Asn
 180 185 190
 Asp His Phe Gly His Tyr Val Cys Gln Pro Asp Gly Asn Leu Ser Cys
 195 200 205
 Leu Pro Gly Trp Thr Gly Glu Tyr Cys Gln Gln Pro Ile Cys Leu Ser
 210 215 220
 Gly Cys His Glu Gln Asn Gly Tyr Cys Ser Lys Pro Ala Glu Cys Leu
 225 230 235 240
 Cys Arg Pro Gly Trp Gln Gly Arg Leu Cys Asn Glu Cys Ile Pro His
 245 250 255
 Asn Gly Cys Arg His Gly Thr Cys Ser Thr Pro Trp Gln Cys Thr Cys
 260 265 270

39467A.txt.txt

Asp Glu Gly Trp Gly Gly Leu Phe Cys Asp Gln Asp Leu Asn Tyr Cys
 275 280 285

Thr His His Ser Pro Cys Lys Asn Gly Ala Thr Cys Ser Asn Ser Gly
 290 295 300

Gln Arg Ser Tyr Thr Cys Thr Cys Arg Pro Gly Tyr Thr Gly Val Asp
 305 310 315 320

Cys Glu Leu Glu Leu Ser Glu Cys Asp Ser Asn Pro Cys Arg Asn Gly
 325 330 335

Gly Ser Cys Lys Asp Gln Glu Asp Gly Tyr His Cys Leu Cys Pro Pro
 340 345 350

Gly Tyr Tyr Gly Leu His Cys Glu His Ser Thr Leu Ser Cys Ala Asp
 355 360 365

Ser Pro Cys Phe Asn Gly Gly Ser Cys Arg Glu Arg Asn Gln Gly Ala
 370 375 380

Asn Tyr Ala Cys Glu Cys Pro Pro Asn Phe Thr Gly Ser Asn Cys Glu
 385 390 395 400

Lys Lys Val Asp Arg Cys Thr Ser Asn Pro Cys Ala Asn Gly Gly Gln
 405 410 415

Cys Leu Asn Arg Gly Pro Ser Arg Met Cys Arg Cys Arg Pro Gly Phe
 420 425 430

Thr Gly Thr Tyr Cys Glu Leu His Val Ser Asp Cys Ala Arg Asn Pro
 435 440 445

Cys Ala His Gly Gly Thr Cys His Asp Leu Glu Asn Gly Leu Met Cys
 450 455 460

Thr Cys Pro Ala Gly Phe Ser Gly Arg Arg Cys Glu Val Arg Thr Ser
 465 470 475 480

Ile Asp Ala Cys Ala Ser Ser Pro Cys Phe Asn Arg Ala Thr Cys Tyr
 485 490 495

Thr Asp Leu Ser Thr Asp Thr Phe Val Cys Asn Cys Pro Tyr Gly Phe
 500 505 510

Val Gly Ser Arg Cys Glu Phe Pro Val Gly Leu Pro Pro Ser Phe Pro
 515 520 525

Trp Val Ala Val Ser Leu Gly Val Gly Leu Ala Val Leu Leu Val Leu
 530 535 540

39467A.txt.txt

Leu Gly Met Val Ala Val Ala Val Arg Gln Leu Arg Leu Arg Arg Pro
 545 550 555 560

Asp Asp Gly Ser Arg Glu Ala Met Asn Asn Leu Ser Asp Phe Gln Lys
 565 570 575

Asp Asn Leu Ile Pro Ala Ala Gln Leu Lys Asn Thr Asn Gln Lys Lys
 580 585 590

Glu Leu Glu Val Asp Cys Gly Leu Asp Lys Ser Asn Cys Gly Lys Gln
 595 600 605

Gln Asn His Thr Leu Asp Tyr Asn Leu Ala Pro Gly Pro Leu Gly Arg
 610 615 620

Gly Thr Met Pro Gly Lys Phe Pro His Ser Asp Lys Ser Leu Gly Glu
 625 630 635 640

Lys Ala Pro Leu Arg Leu His Ser Glu Lys Pro Glu Cys Arg Ile Ser
 645 650 655

Ala Ile Cys Ser Pro Arg Asp Ser Met Tyr Gln Ser Val Cys Leu Ile
 660 665 670

Ser Glu Glu Arg Asn Glu Cys Val Ile Ala Thr Glu Val
 675 680 685

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 <211> 5077
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Jagged2, transcript variant 1

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39467A.txt.txt

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39467A.txt.txt

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39467A.txt.txt

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 <211> 1238
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Jagged2, transcript variant 1

<400> 35

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Gln Leu Ser Ala Leu Arg Asn Val Asn Gly Glu Leu Leu Ser Gly Ala
35 40 45

Cys Cys Asp Gly Asp Gly Arg Thr Thr Arg Ala Gly Gly Cys Gly His
50 55 60

Asp Glu Cys Asp Thr Tyr Val Arg Val Cys Leu Lys Glu Tyr Gln Ala
65 70 75 80

Lys Val Thr Pro Thr Gly Pro Cys Ser Tyr Gly His Gly Ala Thr Pro
85 90 95

Val Leu Gly Gly Asn Ser Phe Tyr Leu Pro Pro Ala Gly Ala Ala Gly
100 105 110

Asp Arg Ala Arg Ala Arg Ala Arg Ala Gly Gly Asp Gln Asp Pro Gly
115 120 125

Leu Val Val Ile Pro Phe Gln Phe Ala Trp Pro Arg Ser Phe Thr Leu
130 135 140

Ile Val Glu Ala Trp Asp Trp Asp Asn Asp Thr Thr Pro Asn Glu Glu
145 150 155 160

Leu Leu Ile Glu Arg Val Ser His Ala Gly Met Ile Asn Pro Glu Asp

39467A.txt.txt

165

170

175

Arg Trp Lys Ser Leu His Phe Ser Gly His Val Ala His Leu Glu Leu
 180 185 190

Gln Ile Arg Val Arg Cys Asp Glu Asn Tyr Tyr Ser Ala Thr Cys Asn
 195 200 205

Lys Phe Cys Arg Pro Arg Asn Asp Phe Phe Gly His Tyr Thr Cys Asp
 210 215 220

Gln Tyr Gly Asn Lys Ala Cys Met Asp Gly Trp Met Gly Lys Glu Cys
 225 230 235 240

Lys Glu Ala Val Cys Lys Gln Gly Cys Asn Leu Leu His Gly Gly Cys
 245 250 255

Thr Val Pro Gly Glu Cys Arg Cys Ser Tyr Gly Trp Gln Gly Arg Phe
 260 265 270

Cys Asp Glu Cys Val Pro Tyr Pro Gly Cys Val His Gly Ser Cys Val
 275 280 285

Glu Pro Trp Gln Cys Asn Cys Glu Thr Asn Trp Gly Gly Leu Leu Cys
 290 295 300

Asp Lys Asp Leu Asn Tyr Cys Gly Ser His His Pro Cys Thr Asn Gly
 305 310 315 320

Gly Thr Cys Ile Asn Ala Glu Pro Asp Gln Tyr Arg Cys Thr Cys Pro
 325 330 335

Asp Gly Tyr Ser Gly Arg Asn Cys Glu Lys Ala Glu His Ala Cys Thr
 340 345 350

Ser Asn Pro Cys Ala Asn Gly Gly Ser Cys His Glu Val Pro Ser Gly
 355 360 365

Phe Glu Cys His Cys Pro Ser Gly Trp Ser Gly Pro Thr Cys Ala Leu
 370 375 380

Asp Ile Asp Glu Cys Ala Ser Asn Pro Cys Ala Ala Gly Gly Thr Cys
 385 390 395 400

Val Asp Gln Val Asp Gly Phe Glu Cys Ile Cys Pro Glu Gln Trp Val
 405 410 415

Gly Ala Thr Cys Gln Leu Asp Ala Asn Glu Cys Glu Gly Lys Pro Cys
 420 425 430

Leu Asn Ala Phe Ser Cys Lys Asn Leu Ile Gly Gly Tyr Tyr Cys Asp

39467A.txt.txt

435

440

445

Cys Ile Pro Gly Trp Lys Gly Ile Asn Cys His Ile Asn Val Asn Asp
 450 455 460
 Cys Arg Gly Gln Cys Gln His Gly Gly Thr Cys Lys Asp Leu Val Asn
 465 470 475 480
 Gly Tyr Gln Cys Val Cys Pro Arg Gly Phe Gly Gly Arg His Cys Glu
 485 490 495
 Leu Glu Arg Asp Glu Cys Ala Ser Ser Pro Cys His Ser Gly Gly Leu
 500 505 510
 Cys Glu Asp Leu Ala Asp Gly Phe His Cys His Cys Pro Gln Gly Phe
 515 520 525
 Ser Gly Pro Leu Cys Glu Val Asp Val Asp Leu Cys Glu Pro Ser Pro
 530 535 540
 Cys Arg Asn Gly Ala Arg Cys Tyr Asn Leu Glu Gly Asp Tyr Tyr Cys
 545 550 555 560
 Ala Cys Pro Asp Asp Phe Gly Gly Lys Asn Cys Ser Val Pro Arg Glu
 565 570 575
 Pro Cys Pro Gly Gly Ala Cys Arg Val Ile Asp Gly Cys Gly Ser Asp
 580 585 590
 Ala Gly Pro Gly Met Pro Gly Thr Ala Ala Ser Gly Val Cys Gly Pro
 595 600 605
 His Gly Arg Cys Val Ser Gln Pro Gly Gly Asn Phe Ser Cys Ile Cys
 610 615 620
 Asp Ser Gly Phe Thr Gly Thr Tyr Cys His Glu Asn Ile Asp Asp Cys
 625 630 635 640
 Leu Gly Gln Pro Cys Arg Asn Gly Gly Thr Cys Ile Asp Glu Val Asp
 645 650 655
 Ala Phe Arg Cys Phe Cys Pro Ser Gly Trp Glu Gly Glu Leu Cys Asp
 660 665 670
 Thr Asn Pro Asn Asp Cys Leu Pro Asp Pro Cys His Ser Arg Gly Arg
 675 680 685
 Cys Tyr Asp Leu Val Asn Asp Phe Tyr Cys Ala Cys Asp Asp Gly Trp
 690 695 700
 Lys Gly Lys Thr Cys His Ser Arg Glu Phe Gln Cys Asp Ala Tyr Thr

39467A.txt.txt
715

705

710

720

Cys Ser Asn Gly Gly Thr Cys Tyr Asp Ser Gly Asp Thr Phe Arg Cys
725 730 735

Ala Cys Pro Pro Gly Trp Lys Gly Ser Thr Cys Ala Val Ala Lys Asn
740 745 750

Ser Ser Cys Leu Pro Asn Pro Cys Val Asn Gly Gly Thr Cys Val Gly
755 760 765

Ser Gly Ala Ser Phe Ser Cys Ile Cys Arg Asp Gly Trp Glu Gly Arg
770 775 780

Thr Cys Thr His Asn Thr Asn Asp Cys Asn Pro Leu Pro Cys Tyr Asn
785 790 795 800

Gly Gly Ile Cys Val Asp Gly Val Asn Trp Phe Arg Cys Glu Cys Ala
805 810 815

Pro Gly Phe Ala Gly Pro Asp Cys Arg Ile Asn Ile Asp Glu Cys Gln
820 825 830

Ser Ser Pro Cys Ala Tyr Gly Ala Thr Cys Val Asp Glu Ile Asn Gly
835 840 845

Tyr Arg Cys Ser Cys Pro Pro Gly Arg Ala Gly Pro Arg Cys Gln Glu
850 855 860

Val Ile Gly Phe Gly Arg Ser Cys Trp Ser Arg Gly Thr Pro Phe Pro
865 870 875 880

His Gly Ser Ser Trp Val Glu Asp Cys Asn Ser Cys Arg Cys Leu Asp
885 890 895

Gly Arg Arg Asp Cys Ser Lys Val Trp Cys Gly Trp Lys Pro Cys Leu
900 905 910

Leu Ala Gly Gln Pro Glu Ala Leu Ser Ala Gln Cys Pro Leu Gly Gln
915 920 925

Arg Cys Leu Glu Lys Ala Pro Gly Gln Cys Leu Arg Pro Pro Cys Glu
930 935 940

Ala Trp Gly Glu Cys Gly Ala Glu Glu Pro Pro Ser Thr Pro Cys Leu
945 950 955 960

Pro Arg Ser Gly His Leu Asp Asn Asn Cys Ala Arg Leu Thr Leu His
965 970 975

Phe Asn Arg Asp His Val Pro Gln Gly Thr Thr Val Gly Ala Ile Cys

980

39467A.txt.txt
985

990

Ser Gly Ile Arg Ser Leu Pro Ala Thr Arg Ala Val Ala Arg Asp Arg
995 1000 1005

Leu Leu Val Leu Leu Cys Asp Arg Ala Ser Ser Gly Ala Ser Ala
1010 1015 1020

Val Glu Val Ala Val Ser Phe Ser Pro Ala Arg Asp Leu Pro Asp
1025 1030 1035

Ser Ser Leu Ile Gln Gly Ala Ala His Ala Ile Val Ala Ala Ile
1040 1045 1050

Thr Gln Arg Gly Asn Ser Ser Leu Leu Leu Ala Val Thr Glu Val
1055 1060 1065

Lys Val Glu Thr Val Val Thr Gly Gly Ser Ser Thr Gly Leu Leu
1070 1075 1080

Val Pro Val Leu Cys Gly Ala Phe Ser Val Leu Trp Leu Ala Cys
1085 1090 1095

Val Val Leu Cys Val Trp Trp Thr Arg Lys Arg Arg Lys Glu Arg
1100 1105 1110

Glu Arg Ser Arg Leu Pro Arg Glu Glu Ser Ala Asn Asn Gln Trp
1115 1120 1125

Ala Pro Leu Asn Pro Ile Arg Asn Pro Ile Glu Arg Pro Gly Gly
1130 1135 1140

His Lys Asp Val Leu Tyr Gln Cys Lys Asn Phe Thr Pro Pro Pro
1145 1150 1155

Arg Arg Ala Asp Glu Ala Leu Pro Gly Pro Ala Gly His Ala Ala
1160 1165 1170

Val Arg Glu Asp Glu Glu Asp Glu Asp Leu Gly Arg Gly Glu Glu
1175 1180 1185

Asp Ser Leu Glu Ala Glu Lys Phe Leu Ser His Lys Phe Thr Lys
1190 1195 1200

Asp Pro Gly Arg Ser Pro Gly Arg Pro Ala His Trp Ala Ser Gly
1205 1210 1215

Pro Lys Val Asp Asn Arg Ala Val Arg Ser Ile Asn Glu Ala Arg
1220 1225 1230

Tyr Ala Gly Lys Glu

39467A.txt.txt

1235

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<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Hey-1

<400> 36
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 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Hey-1
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Ser Ser Ala Leu Gly Ser Met Ser Pro Thr Thr Ser Ser Gln Ile Leu
35 40 45

Ala Arg Lys Arg Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg
50 55 60

Ile Asn Asn Ser Leu Ser Glu Leu Arg Arg Leu Val Pro Ser Ala Phe
65 70 75 80

Glu Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met
85 90 95

Thr Val Asp His Leu Lys Met Leu His Thr Ala Gly Gly Lys Gly Tyr
100 105 110

Phe Asp Ala His Ala Leu Ala Met Asp Tyr Arg Ser Leu Gly Phe Arg
115 120 125

Glu Cys Leu Ala Glu Val Ala Arg Tyr Leu Ser Ile Ile Glu Gly Leu

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130

135

140

Asp Ala Ser Asp Pro Leu Arg Val Arg Leu Val Ser His Leu Asn Asn
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Tyr Ala Ser Gln Arg Glu Ala Ala Ser Gly Ala His Ala Gly Leu Gly
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His Ile Pro Trp Gly Thr Val Phe Gly His His Pro His Ile Ala His
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Pro Leu Leu Leu Pro Gln Asn Gly His Gly Asn Ala Gly Thr Thr Ala
 195 200 205

Ser Pro Thr Glu Pro His His Gln Gly Arg Leu Gly Ser Ala His Pro
 210 215 220

Glu Ala Pro Ala Leu Arg Ala Pro Pro Ser Gly Ser Phe Gly Pro Val
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Leu Pro Val Val Thr Ser Ala Ser Lys Leu Ser Leu Pro Leu Leu Ser
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Ser Val Ala Ser Leu Ser Ala Phe Pro Phe Ser Phe Gly Ser Phe His
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Leu Leu Ser Pro Asn Ala Leu Ser Pro Ser Ala Pro Thr Gln Ala Ala
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 <212> DNA
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<220>
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 <223> Hey-2

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Ser Val Ile Arg Leu Asn Ser Pro Thr Thr Thr Ser Gln Ile Met Ala
 35 40 45

Arg Lys Lys Arg Arg Gly Ile Ile Glu Lys Arg Arg Arg Asp Arg Ile
 50 55 60

Asn Asn Ser Leu Ser Glu Leu Arg Arg Leu Val Pro Thr Ala Phe Glu
 65 70 75 80

Lys Gln Gly Ser Ala Lys Leu Glu Lys Ala Glu Ile Leu Gln Met Thr
 85 90 95

Val Asp His Leu Lys Met Leu Gln Ala Thr Gly Gly Lys Gly Tyr Phe
 100 105 110

Asp Ala His Ala Leu Ala Met Asp Phe Met Ser Ile Gly Phe Arg Glu
 115 120 125

Cys Leu Thr Glu Val Ala Arg Tyr Leu Ser Ser Val Glu Gly Leu Asp
 130 135 140

Ser Ser Asp Pro Leu Arg Val Arg Leu Val Ser His Leu Ser Thr Cys
 145 150 155 160

Ala Thr Gln Arg Glu Ala Ala Ala Met Thr Ser Ser Met Ala His His
 165 170 175

His His Pro Leu His Pro His His Trp Ala Ala Ala Phe His His Leu
 180 185 190

Pro Ala Ala Leu Leu Gln Pro Asn Gly Leu His Ala Ser Glu Ser Thr
 195 200 205

39467A.txt.txt

Pro Cys Arg Leu Ser Thr Thr Ser Glu Val Pro Pro Ala His Gly Ser
 210 215 220

Ala Leu Leu Thr Ala Thr Phe Ala His Ala Asp Ser Ala Leu Arg Met
 225 230 235 240

Pro Ser Thr Gly Ser Val Ala Pro Cys Val Pro Pro Leu Ser Thr Ser
 245 250 255

Leu Leu Ser Leu Ser Ala Thr Val His Ala Ala Ala Ala Ala Ala Thr
 260 265 270

Ala Ala Ala His Ser Phe Pro Leu Ser Phe Ala Gly Ala Phe Pro Met
 275 280 285

Leu Pro Pro Asn Ala Ala Ala Ala Val Ala Ala Ala Thr Ala Ile Ser
 290 295 300

Pro Pro Leu Ser Val Ser Ala Thr Ser Ser Pro Gln Gln Thr Ser Ser
 305 310 315 320

Gly Thr Asn Asn Lys Pro Tyr Arg Pro Trp Gly Thr Glu Val Gly Ala
 325 330 335

Phe

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39467A.txt.txt

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Thr Pro Ala Ser Val Asn Thr Thr Pro Asp Lys Pro Lys Thr Ala Ser
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Glu His Arg Lys Ser Ser Lys Pro Ile Met Glu Lys Arg Arg Arg Ala
 35 40 45

Arg Ile Asn Glu Ser Leu Ser Gln Leu Lys Thr Leu Ile Leu Asp Ala
 50 55 60

Leu Lys Lys Asp Ser Ser Arg His Ser Lys Leu Glu Lys Ala Asp Ile
 65 70 75 80

Leu Glu Met Thr Val Lys His Leu Arg Asn Leu Gln Arg Ala Gln Met
 85 90 95

Thr Ala Ala Leu Ser Thr Asp Pro Ser Val Leu Gly Lys Tyr Arg Ala

100

39467A.txt.txt
105

110

Gly Phe Ser Glu Cys Met Asn Glu Val Thr Arg Phe Leu Ser Thr Cys
115 120 125

Glu Gly Val Asn Thr Glu Val Arg Thr Arg Leu Leu Gly His Leu Ala
130 135 140

Asn Cys Met Thr Gln Ile Asn Ala Met Thr Tyr Pro Gly Gln Pro His
145 150 155 160

Pro Ala Leu Gln Ala Pro Pro Pro Pro Pro Pro Gly Pro Gly Gly Pro
165 170 175

Gln His Ala Pro Phe Ala Pro Pro Pro Pro Leu Val Pro Ile Pro Gly
180 185 190

Gly Ala Ala Pro Pro Pro Gly Gly Ala Pro Cys Lys Leu Gly Ser Gln
195 200 205

Ala Gly Glu Ala Ala Lys Val Phe Gly Gly Phe Gln Val Val Pro Ala
210 215 220

Pro Asp Gly Gln Phe Ala Phe Leu Ile Pro Asn Gly Ala Phe Ala His
225 230 235 240

Ser Gly Pro Val Ile Pro Val Tyr Thr Ser Asn Ser Gly Thr Ser Val
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Gly Pro Asn Ala Val Ser Pro Ser Ser Gly Pro Ser Leu Thr Ala Asp
260 265 270

Ser Met Trp Arg Pro Trp Arg Asn
275 280

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39467A.txt.txt

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39467A.txt.txt

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ggtcat

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<220>
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<400> 43

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His Leu Thr Lys Leu Glu Thr Glu Ala Ser Asn Met Lys Glu Val Leu
 35 40 45

Lys Gln Leu Gln Gly Ser Ile Glu Asp Glu Ala Met Ala Ser Ser Gly
 50 55 60

Gln Ile Asp Leu Leu Glu Arg Leu Lys Glu Leu Asn Leu Asp Ser Ser
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Asn Phe Pro Gly Val Lys Leu Arg Ser Lys Met Ser Leu Arg Ser Tyr
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Gly Ser Arg Glu Gly Ser Val Ser Ser Arg Ser Gly Glu Cys Ser Pro
 100 105 110

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 180 185 190

Ala Arg Gln Ile Arg Val Ala Met Glu Glu Gln Leu Gly Thr Cys Gln
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39467A.txt.txt

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 260 265 270

Thr Ser Gly Asn Gly Gln Gly Ser Thr Thr Arg Met Asp His Glu Thr
 275 280 285

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Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser
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Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala
 325 330 335

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Leu Leu Gly Asn Ser Arg Gly Ser Lys Glu Ala Arg Ala Arg Ala Ser
 370 375 380

Ala Ala Leu His Asn Ile Ile His Ser Gln Pro Asp Asp Lys Arg Gly
 385 390 395 400

Arg Arg Glu Ile Arg Val Leu His Leu Leu Glu Gln Ile Arg Ala Tyr
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Cys Glu Thr Cys Trp Glu Trp Gln Glu Ala His Glu Pro Gly Met Asp
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Gln Asp Lys Asn Pro Met Pro Ala Pro Val Glu His Gln Ile Cys Pro
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Ala Val Cys Val Leu Met Lys Leu Ser Phe Asp Glu Glu His Arg His
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Ala Met Asn Glu Leu Gly Gly Leu Gln Ala Ile Ala Glu Leu Leu Gln
 465 470 475 480

39467A.txt.txt

Val Asp Cys Glu Met Tyr Gly Leu Thr Asn Asp His Tyr Ser Ile Thr
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Leu Arg Arg Tyr Ala Gly Met Ala Leu Thr Asn Leu Thr Phe Gly Asp
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Val Ala Asn Lys Ala Thr Leu Cys Ser Met Lys Gly Cys Met Arg Ala
 515 520 525

Leu Val Ala Gln Leu Lys Ser Glu Ser Glu Asp Leu Gln Gln Val Ile
 530 535 540

Ala Ser Val Leu Arg Asn Leu Ser Trp Arg Ala Asp Val Asn Ser Lys
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Lys Thr Leu Arg Glu Val Gly Ser Val Lys Ala Leu Met Glu Cys Ala
 565 570 575

Leu Glu Val Lys Lys Glu Ser Thr Leu Lys Ser Val Leu Ser Ala Leu
 580 585 590

Trp Asn Leu Ser Ala His Cys Thr Glu Asn Lys Ala Asp Ile Cys Ala
 595 600 605

Val Asp Gly Ala Leu Ala Phe Leu Val Gly Thr Leu Thr Tyr Arg Ser
 610 615 620

Gln Thr Asn Thr Leu Ala Ile Ile Glu Ser Gly Gly Gly Ile Leu Arg
 625 630 635 640

Asn Val Ser Ser Leu Ile Ala Thr Asn Glu Asp His Arg Gln Ile Leu
 645 650 655

Arg Glu Asn Asn Cys Leu Gln Thr Leu Leu Gln His Leu Lys Ser His
 660 665 670

Ser Leu Thr Ile Val Ser Asn Ala Cys Gly Thr Leu Trp Asn Leu Ser
 675 680 685

Ala Arg Asn Pro Lys Asp Gln Glu Ala Leu Trp Asp Met Gly Ala Val
 690 695 700

Ser Met Leu Lys Asn Leu Ile His Ser Lys His Lys Met Ile Ala Met
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Gly Ser Ala Ala Ala Leu Arg Asn Leu Met Ala Asn Arg Pro Ala Lys
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Tyr Lys Asp Ala Asn Ile Met Ser Pro Gly Ser Ser Leu Pro Ser Leu
 740 745 750

39467A.txt.txt

His Val Arg Lys Gln Lys Ala Leu Glu Ala Glu Leu Asp Ala Gln His
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Leu Ser Glu Thr Phe Asp Asn Ile Asp Asn Leu Ser Pro Lys Ala Ser
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His Arg Ser Lys Gln Arg His Lys Gln Ser Leu Tyr Gly Asp Tyr Val
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Phe Asp Thr Asn Arg His Asp Asp Asn Arg Ser Asp Asn Phe Asn Thr
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Gly Asn Met Thr Val Leu Ser Pro Tyr Leu Asn Thr Thr Val Leu Pro
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Ser Ser Ser Ser Arg Gly Ser Leu Asp Ser Ser Arg Ser Glu Lys
 835 840 845

Asp Arg Ser Leu Glu Arg Glu Arg Gly Ile Gly Leu Gly Asn Tyr His
 850 855 860

Pro Ala Thr Glu Asn Pro Gly Thr Ser Ser Lys Arg Gly Leu Gln Ile
 865 870 875 880

Ser Thr Thr Ala Ala Gln Ile Ala Lys Val Met Glu Glu Val Ser Ala
 885 890 895

Ile His Thr Ser Gln Glu Asp Arg Ser Ser Gly Ser Thr Thr Glu Leu
 900 905 910

His Cys Val Thr Asp Glu Arg Asn Ala Leu Arg Arg Ser Ser Ala Ala
 915 920 925

His Thr His Ser Asn Thr Tyr Asn Phe Thr Lys Ser Glu Asn Ser Asn
 930 935 940

Arg Thr Cys Ser Met Pro Tyr Ala Lys Leu Glu Tyr Lys Arg Ser Ser
 945 950 955 960

Asn Asp Ser Leu Asn Ser Val Ser Ser Ser Asp Gly Tyr Gly Lys Arg
 965 970 975

Gly Gln Met Lys Pro Ser Ile Glu Ser Tyr Ser Glu Asp Asp Glu Ser
 980 985 990

Lys Phe Cys Ser Tyr Gly Gln Tyr Pro Ala Asp Leu Ala His Lys Ile
 995 1000 1005

His Ser Ala Asn His Met Asp Asp Asn Asp Gly Glu Leu Asp Thr
 1010 1015 1020

39467A.txt.txt

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 1070 1075 1080
 Asp Lys His Leu Lys Phe Gln Pro His Phe Gly Gln Gln Glu Cys
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 Val Ser Pro Tyr Arg Ser Arg Gly Ala Asn Gly Ser Glu Thr Asn
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 Leu Cys Gln Glu Asp Asp Tyr Glu Asp Asp Lys Pro Thr Asn Tyr
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39467A.txt.txt

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 Glu Lys Ile Gly Thr Arg Ser Ala Glu Asp Pro Val Ser Glu Val
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 Asp Val Glu Leu Arg Ile Met Pro Pro Val Gln Glu Asn Asp Asn
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39467A.txt.txt

Gly Asn Glu Thr Glu Ser Glu Gln Pro Lys Glu Ser Asn Glu Asn
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 Lys Lys Ile Met Asp Gln Val Gln Gln Ala Ser Ala Ser Ser Ser
 1745 1750 1755
 Ala Pro Asn Lys Asn Gln Leu Asp Gly Lys Lys Lys Lys Pro Thr
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 Ser Pro Val Lys Pro Ile Pro Gln Asn Thr Glu Tyr Arg Thr Arg
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39467A.txt.txt

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 Val Arg Gly Ser Phe Ala Phe Asp Ser Pro His His Tyr Thr Pro
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 Ile Glu Gly Thr Pro Tyr Cys Phe Ser Arg Asn Asp Ser Leu Ser
 1850 1855 1860
 Ser Leu Asp Phe Asp Asp Asp Asp Val Asp Leu Ser Arg Glu Lys
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 1880 1885 1890
 Val Thr Ser His Thr Glu Leu Thr Ser Asn Gln Gln Ser Ala Asn
 1895 1900 1905
 Lys Thr Gln Ala Ile Ala Lys Gln Pro Ile Asn Arg Gly Gln Pro
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 Lys Pro Ile Leu Gln Lys Gln Ser Thr Phe Pro Gln Ser Ser Lys
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39467A.txt.txt

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 2075 2080 2085
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 2105 2110 2115
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 2120 2125 2130
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 2270 2275 2280
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39467A.txt.txt

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 2330 2335 2340
 Gln Leu Pro Arg Thr Ser Ser Pro Ser Thr Ala Ser Thr Lys Ser
 2345 2350 2355
 Ser Gly Ser Gly Lys Met Ser Tyr Thr Ser Pro Gly Arg Gln Met
 2360 2365 2370
 Ser Gln Gln Asn Leu Thr Lys Gln Thr Gly Leu Ser Lys Asn Ala
 2375 2380 2385
 Ser Ser Ile Pro Arg Ser Glu Ser Ala Ser Lys Gly Leu Asn Gln
 2390 2395 2400
 Met Asn Asn Gly Asn Gly Ala Asn Lys Lys Val Glu Leu Ser Arg
 2405 2410 2415
 Met Ser Ser Thr Lys Ser Ser Gly Ser Glu Ser Asp Arg Ser Glu
 2420 2425 2430
 Arg Pro Val Leu Val Arg Gln Ser Thr Phe Ile Lys Glu Ala Pro
 2435 2440 2445
 Ser Pro Thr Leu Arg Arg Lys Leu Glu Glu Ser Ala Ser Phe Glu
 2450 2455 2460
 Ser Leu Ser Pro Ser Ser Arg Pro Ala Ser Pro Thr Arg Ser Gln
 2465 2470 2475
 Ala Gln Thr Pro Val Leu Ser Pro Ser Leu Pro Asp Met Ser Leu
 2480 2485 2490
 Ser Thr His Ser Ser Val Gln Ala Gly Gly Trp Arg Lys Leu Pro
 2495 2500 2505
 Pro Asn Leu Ser Pro Thr Ile Glu Tyr Asn Asp Gly Arg Pro Ala
 2510 2515 2520
 Lys Arg His Asp Ile Ala Arg Ser His Ser Glu Ser Pro Ser Arg
 2525 2530 2535
 Leu Pro Ile Asn Arg Ser Gly Thr Trp Lys Arg Glu His Ser Lys
 2540 2545 2550

39467A.txt.txt

His Ser Ser Ser Leu Pro Arg Val Ser Thr Trp Arg Arg Thr Gly
 2555 2560 2565
 Ser Ser Ser Ser Ile Leu Ser Ala Ser Ser Glu Ser Ser Glu Lys
 2570 2575 2580
 Ala Lys Ser Glu Asp Glu Lys His Val Asn Ser Ile Ser Gly Thr
 2585 2590 2595
 Lys Gln Ser Lys Glu Asn Gln Val Ser Ala Lys Gly Thr Trp Arg
 2600 2605 2610
 Lys Ile Lys Glu Asn Glu Phe Ser Pro Thr Asn Ser Thr Ser Gln
 2615 2620 2625
 Thr Val Ser Ser Gly Ala Thr Asn Gly Ala Glu Ser Lys Thr Leu
 2630 2635 2640
 Ile Tyr Gln Met Ala Pro Ala Val Ser Lys Thr Glu Asp Val Trp
 2645 2650 2655
 Val Arg Ile Glu Asp Cys Pro Ile Asn Asn Pro Arg Ser Gly Arg
 2660 2665 2670
 Ser Pro Thr Gly Asn Thr Pro Pro Val Ile Asp Ser Val Ser Glu
 2675 2680 2685
 Lys Ala Asn Pro Asn Ile Lys Asp Ser Lys Asp Asn Gln Ala Lys
 2690 2695 2700
 Gln Asn Val Gly Asn Gly Ser Val Pro Met Arg Thr Val Gly Leu
 2705 2710 2715
 Glu Asn Arg Leu Asn Ser Phe Ile Gln Val Asp Ala Pro Asp Gln
 2720 2725 2730
 Lys Gly Thr Glu Ile Lys Pro Gly Gln Asn Asn Pro Val Pro Val
 2735 2740 2745
 Ser Glu Thr Asn Glu Ser Ser Ile Val Glu Arg Thr Pro Phe Ser
 2750 2755 2760
 Ser Ser Ser Ser Ser Lys His Ser Ser Pro Ser Gly Thr Val Ala
 2765 2770 2775
 Ala Arg Val Thr Pro Phe Asn Tyr Asn Pro Ser Pro Arg Lys Ser
 2780 2785 2790
 Ser Ala Asp Ser Thr Ser Ala Arg Pro Ser Gln Ile Pro Thr Pro
 2795 2800 2805

39467A.txt.txt
 Val Asn Asn Asn Thr Lys Lys Arg Asp Ser Lys Thr Asp Ser Thr
 2810 2815 2820

Glu Ser Ser Gly Thr Gln Ser Pro Lys Arg His Ser Gly Ser Tyr
 2825 2830 2835

Leu Val Thr Ser Val
 2840

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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> C-myc

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 cagcagcaga gcgagctgca gccccggcg ccagcgagg atatctggaa gaaattcgag 720
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39467A.txt.txt

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aaaaggctcag agtctggatc accttctgct ggaggccaca gcaaacctcc tcacagccca 1440
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<210> 45
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 <212> PRT
 <213> Homo sapiens

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 <223> C-myc

<400> 45

Met Pro Leu Asn Val Ser Phe Thr Asn Arg Asn Tyr Asp Leu Asp Tyr
1 5 10 15

Asp Ser Val Gln Pro Tyr Phe Tyr Cys Asp Glu Glu Glu Asn Phe Tyr
20 25 30

Gln Gln Gln Gln Gln Ser Glu Leu Gln Pro Pro Ala Pro Ser Glu Asp
35 40 45

Ile Trp Lys Lys Phe Glu Leu Leu Pro Thr Pro Pro Leu Ser Pro Ser
50 55 60

Arg Arg Ser Gly Leu Cys Ser Pro Ser Tyr Val Ala Val Thr Pro Phe
65 70 75 80

Ser Leu Arg Gly Asp Asn Asp Gly Gly Gly Gly Ser Phe Ser Thr Ala
85 90 95

Asp Gln Leu Glu Met Val Thr Glu Leu Leu Gly Gly Asp Met Val Asn
100 105 110

39467A.txt.txt

Gln Ser Phe Ile Cys Asp Pro Asp Asp Glu Thr Phe Ile Lys Asn Ile
 115 120 125
 Ile Ile Gln Asp Cys Met Trp Ser Gly Phe Ser Ala Ala Ala Lys Leu
 130 135 140
 Val Ser Glu Lys Leu Ala Ser Tyr Gln Ala Ala Arg Lys Asp Ser Gly
 145 150 155 160
 Ser Pro Asn Pro Ala Arg Gly His Ser Val Cys Ser Thr Ser Ser Leu
 165 170 175
 Tyr Leu Gln Asp Leu Ser Ala Ala Ala Ser Glu Cys Ile Asp Pro Ser
 180 185 190
 Val Val Phe Pro Tyr Pro Leu Asn Asp Ser Ser Ser Pro Lys Ser Cys
 195 200 205
 Ala Ser Gln Asp Ser Ser Ala Phe Ser Pro Ser Ser Asp Ser Leu Leu
 210 215 220
 Ser Ser Thr Glu Ser Ser Pro Gln Gly Ser Pro Glu Pro Leu Val Leu
 225 230 235 240
 His Glu Glu Thr Pro Pro Thr Thr Ser Ser Asp Ser Glu Glu Glu Gln
 245 250 255
 Glu Asp Glu Glu Glu Ile Asp Val Val Ser Val Glu Lys Arg Gln Ala
 260 265 270
 Pro Gly Lys Arg Ser Glu Ser Gly Ser Pro Ser Ala Gly Gly His Ser
 275 280 285
 Lys Pro Pro His Ser Pro Leu Val Leu Lys Arg Cys His Val Ser Thr
 290 295 300
 His Gln His Asn Tyr Ala Ala Pro Pro Ser Thr Arg Lys Asp Tyr Pro
 305 310 315 320
 Ala Ala Lys Arg Val Lys Leu Asp Ser Val Arg Val Leu Arg Gln Ile
 325 330 335
 Ser Asn Asn Arg Lys Cys Thr Ser Pro Arg Ser Ser Asp Thr Glu Glu
 340 345 350
 Asn Val Lys Arg Arg Thr His Asn Val Leu Glu Arg Gln Arg Arg Asn
 355 360 365
 Glu Leu Lys Arg Ser Phe Phe Ala Leu Arg Asp Gln Ile Pro Glu Leu
 370 375 380

39467A.txt.txt

Glu Asn Asn Glu Lys Ala Pro Lys Val Val Ile Leu Lys Lys Ala Thr
 385 390 395 400

Ala Tyr Ile Leu Ser Val Gln Ala Glu Glu Gln Lys Leu Ile Ser Glu
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Glu Asp Leu Leu Arg Lys Arg Arg Glu Gln Leu Lys His Lys Leu Glu
 420 425 430

Gln Leu Arg Asn Ser Cys Ala
 435

<210> 46
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 <212> PRT
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<220>
 <221> misc_feature
 <223> TAT protein

<400> 46

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<210> 47
 <211> 54
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic primer

<220>
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 <223> Prox-1 sense

<400> 47
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54

<210> 48
 <211> 58
 <212> DNA
 <213> Artificial sequence

<220>
 <223> synthetic primer

<220>
 <221> misc_feature
 <223> Prox-1 anti-sense

<400> 48
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58

<210> 49
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 <212> DNA
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39467A.txt.txt

<220>
<223> Synthetic primer

<220>
<221> misc_feature
<223> Prox-2 sense

<400> 49
tgagccagtt tgatatggat ttcaagagaa tccatatcaa actggctctt ttttc 55

<210> 50
<211> 58
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic primer

<220>
<221> misc_feature
<223> Prox-2 anti-sense

<400> 50
tcgagaaaa agagccagtt tgatatggat tctcttgaaa tccatatcaa actgctca 58